**GENERAL PERMIT FOR DISCHARGES FROM
STORMWATER ASSOCIATED WITH INDUSTRIAL ACTIVITIES**

DISCHARGE PERMIT NO. 20-SW NPDES PERMIT NO. MDR0000

Effective Date: Month Day, 20 Expiration Date: Month Day,20

[TOC \H \U \Z]

APPENDICIES

You are only permitted to discharge under this permit after notifying and getting approval from the Department.

PART I. APPLICABILITY

By this permit the Maryland Department of the Environment (the Department) authorizes the discharge of stormwater associated with industrial activity to waters of the state. This authorization is only for operators located in the state of Maryland, who have submitted a notice of intent (NOI) and received written approval from the Department to discharge in accordance with the eligibility requirements and other conditions in this permit and consistent with your NOI, as on file with the Department. This authorization is pursuant to the provisions of Title 9 of the Environment Article, Annotated Code of Maryland, and the provisions of the Federal Clean Water Act (CWA), 33 U.S.C. §1251 *et seq.* and implementing regulations 40 CFR Parts 122, 123, 124, and 125. "You" and "Your" are used in this permit to refer to the permittee or the permit applicant, as the context indicates, and that party's facility or responsibilities.

A. Geographic Coverage

This permit applies to facilities operating within the state of Maryland.

B. Facilities Covered

To be eligible to discharge under this permit you must either (1) have been covered under previous permit 12-SW or (2) have a stormwater discharge associated with industrial activity, as defined in Appendix E, from a primary industrial activity included in Appendix A or (3) be notified by the Department that you are eligible for coverage under Sector AD: Non-Classified Facilities, as defined in Appendix A or (4) be notified by the Department that you are eligible for coverage as described in Part I.E.4.

C. Limitations on Coverage

The following stormwater discharges are not eligible for coverage under this permit. Additional limitations on coverage for each sector covered under this permit are listed in Appendix D. You must determine which sector(s) your industrial activities are defined as in Appendix A to determine which additional limitations from Appendix D apply.

1. Stormwater discharges associated with construction activity, as defined in Appendix E and 40 CFR 122.26;

2. Stormwater discharges subject to effluent limitations guidelines (see Part I.G.2);

3. Stormwater discharges that are mixed with non-stormwater, other than those non-stormwater discharges listed in Part I.E.3;

4. Stormwater discharges for which a National Pollutant Discharge Elimination System (NPDES) permit has been terminated (other than at your request) or denied, or those for which the Department requires an individual permit to address stormwater discharges or an alternative general permit (Part I.G.2.b);

5. New discharger discharging to water quality "impaired waters," as defined in Appendix E, are not eligible for coverage under this permit unless you:
   - **a.** prevent all exposure to stormwater of the pollutant(s) for which the waterbody is impaired, and retain documentation of procedures taken to prevent exposure onsite with your SWPPP; or
   - **b.** document that the pollutant(s) for which the waterbody is impaired is not present at your site, and retain documentation of this finding with your SWPPP; or
   - **c.** in advance of submitting your NOI, provide to the Department data to support a showing that the discharge is not expected to cause or contribute to an exceedance of a water quality standard, and retain such data onsite with your SWPPP. To do

this, you must provide data and other technical information to the Department sufficient to demonstrate:

i.) For discharges to waters without a EPA approved or established TMDL, that the discharge of the pollutant for which the water is impaired will meet in-stream water quality criteria at the point of discharge to the waterbody; or

ii.) For discharges to waters with an EPA approved or established TMDL, that there are sufficient remaining wasteload allocations in an EPA approved or established TMDL to allow your discharge and that existing dischargers to the waterbody are subject to compliance schedules designed to bring the waterbody into attainment with water quality standards.

You are eligible to discharge to impaired waters if you receive an affirmative determination from the Department that your discharge will not contribute to the existing impairment, in which case you must maintain such determination onsite with your SWPPP.

D. Prohibited Stormwater Discharges

If you are covered under this permit, a stormwater discharge to waters of the State that contributes to a violation of a water quality standard is a permit violation and subject to corrective actions (see Part IV).

E. Eligible Discharges

Unless otherwise ineligible under Part I.C, the following discharges may be covered under this permit:

1. Stormwater discharges associated with industrial activity for any primary industrial activities and co-located industrial activities if that activity is listed in Appendix A, or discharges previously covered under permit 12-SW;

2. Industrial stormwater discharges per the Department's discretion under Sector AD in Appendix A, which includes established Sector AD.a, Sector AD.b, Sector AD.d or Sector AD.e, or on a site specific basis as determined by the Department;

3. Non-stormwater discharges from:
   - **a.** water used to fight active fires (*not from fire system cleaning or testing),*
   - **b.** pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred (unless all spilled material has been removed);
   - **c.** landscape watering, only if all pesticides, herbicides, and fertilizer have been applied in accordance with the approved labeling;
   - **d.** routine external building wash down that does not use detergents and any dislodged paint chips are filtered;
   - **e.** uncontaminated condensate from air conditioners, coolers, and other compressors and from the outside storage of refrigerated gases or liquids;
   - **f.** irrigation drainage;
   - **g.** uncontaminated ground water or spring water;
   - **h.** foundation or footing drains where flows are not contaminated with process materials; and
   - **i.** incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of your facility, but not intentional discharges from the cooling tower (e.g., “piped” cooling tower blowdown or drains).

4. Stormwater discharges under a separate individual or general permit (except MS4) may also obtain limited coverage under this permit specific to Part III.A "Chesapeake Bay

Restoration Requirements" in lieu of the Department modifying or issuing a separate permit that would otherwise implement requirements equivalent to those in Part.III.A.

5. Use of Chemical Additives for Sediment Control: Use of any chemical additives (defined in Appendix E) for sediment control requires prior notice, indicating your intent to use them on your NOI and listing the additives and any pertinent associated documentation in your Stormwater Pollution Prevention Plan (SWPPP). In addition, the use of Cationic Chemical Additives (defined in Appendix E) for sediment control is subject to the Department's approval policy as outlined in Appendix D Sector L of this permit. Any substances not approved by the Department are prohibited.

F. No Exposure Certification

If you are eligible for coverage by this permit, and meet the requirements for a no exposure exclusion from permitting under 40 CFR 122.26(g), you may file a No Exposure Certification. Upon written notice from the Department that you have met the requirements, you are no longer required to have a permit.

- To qualify for this certification, you must first verify that there is no potential for the stormwater discharged from your facility to waters of the State to be exposed to pollutants in accordance with the criteria established by the Department on form MDE/WMA/PER.067 (found on MDE's website at http://www.mde.state.md.us/ or at the link http://bit.ly/MDE_NEC).
- You shall also obtain written certification by either a Professional Engineer, a Certified Professional in Storm Water Quality (CPSWQ), a Registered Architect, a Landscape Architect or other professional as approved by the Department, that you meet the requirements of no exposure.
- If you qualify, you will submit the completed and appropriately signed form to the Department, along with the required written certification according to the deadlines of this permit (Part II.B).
- The exemption is non-transferable and is only valid while this permit is in effect at which point a new exemption is required. However you must submit a No Exposure Certification to the Department at least once every five years.
- You must notify the Municipal Separate Storm Sewer System (MS4) if your facility is exempted from obtaining an NPDES permit for stormwater associated with industrial activity. This exemption does not preclude the MS4 authority from imposing requirements for restoration of impervious surfaces at the facility.

G. Alternative Permit Coverage

The Department may require you to obtain, or you may also request, an individual permit or coverage under another general permit as described below, even though you may be eligible for coverage under this permit. If the Department requires you to apply for and obtain an alternative permit and you do not apply as required, the Department may terminate your coverage under this permit. This termination is effective at the end of the day that the Department specified for the application or Notice of Intent (NOI) to be submitted, after which you must cease discharges that were covered by this permit.

1. If the Department determines that a discharge may cause water quality standards to be exceeded in the receiving water, then the Department may require you to take additional actions. You may be required to obtain an individual NPDES discharge permit or coverage under another general permit. The Department may process an NOI as an application for an individual permit if site specific conditions do not allow the facility to be covered under the general permit without compromising water quality. This could

occur if, for example, a permittee proposes to discharge to impaired waters, with or without an existing Total Daily Maximum Load (TMDL), or for discharges to high quality waters.

2. If any stormwater discharges at your facility are subject to effluent limitations guidelines or new source performance standards under 40 CFR Subchapter N, then you must apply for an individual NPDES permit or coverage under an industry-specific general permit for those stormwater discharges. This permit may cover parts of your facilities not covered by effluent limitation guidelines or new source performance standards.
   a. Certain stormwater discharges from the following industries are subject to effluent limitation guidelines and are therefore not covered by this permit:

40 CFR 411 – Cement Manufacturing	40 CFR 418 – Fertilizer Manufacturing
40 CFR 419 – Petroleum Refining	40 CFR 423 – Steam Electric Power Generating
40 CFR 429 – Timber Products Processing	40 CFR 440 – Ore Mining and Dressing
40 CFR 443 – Paving and Roofing Material (tars & asphalt)	40 CFR 445 – Landfills

   For a complete list of current effluent guidelines by industry, see the indicated 40 CFR part on the Environmental Protection Agency's (EPA) website for Industrial Regulations ([HYPERLINK "http://www.epa.gov/waterscience/guide/industry.html" \h]). If your industry is included in this list then you should review the applicable 40 CFR part to determine if you are subject to effluent limitation guidelines for stormwater.
   b. If the Department has issued an industry-specific general permit addressing stormwater and wastewater discharges from your industrial activity, you should apply for coverage (including stormwater) under that permit. Currently, those specific permits are:
      i.) General Discharge Permit For Discharges from Mineral Quarries, Borrow Pits, and Concrete and Asphalt Plants: (General Permit No. 15-MM or replacement),
      ii.) General Permit for Discharges from Surface Coal Mines and Related Facilities: (General Discharge Permit No. 06-CM or replacement),
      iii.) General Permit for Discharges from Marinas including Boat Yards and Yacht Basins (Maryland General Permit No. 16-MA or replacement), and
      iv.) General Discharge Permit for Animal Feeding Operations (General Permit No. 09-AF/MDG01 or replacement).

3. You may request to be excluded from coverage under this permit by applying for an individual state or NPDES discharge permit or submitting an NOI for coverage under another general permit. The Department may grant your request if the Department determines your reasons are adequate. If you are issued an individual NPDES permit or apply for coverage under an industry-specific general permit, the Department may terminate your coverage under this permit.

H. Continuation of an Expired General Permit and Permit Coverage

Unless this permit is terminated by the Department, an expired general permit continues in full force and effect during the period that the Department is drafting a new general permit and until the date(s) specified under a reissued general permit. If you wish to continue an activity regulated by this permit after the expiration date of this permit, you shall submit a Continuation of Registration statement at least 60 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Department. Notices of Intent or Continuation of Registration statements submitted later than the expiration date of the existing permit will not be accepted by the Department.

I. Duty to Reapply.

If you wish to continue an activity regulated by this permit under a renewed general permit, you must apply for and obtain authorization as required by the new permit once the Department issues it.

J. Re-opener for Permit Modification (also Refer to Part VI.Q)

This permit may be reopened to incorporate modifications from EPA's final MSGP for corrective actions (AIM) or site specific benchmarks or to incorporate eNOI provisions three (3) years after the effective date of this permit.

PART II. AUTHORIZATION UNDER THIS PERMIT

A. How to Obtain Authorization

If you are eligible for coverage under this permit, per PART I, to obtain authorization you must

• Select, design, install, and implement control measures in accordance with Part III.A and Part III.B to meet numeric and non-numeric effluent limits;

• Submit a complete and accurate Notice of Intent (NOI) or Permit Transfer Request with Permit Fee as indicated below; and

• Develop and submit to the Department, a Stormwater Pollution Prevention Plan (SWPPP) according to the requirements in Part III.C and, where applicable, Part III.A.2 of this permit.

Based on a review of your NOI or Transfer Request, the Department may delay your authorization for further review, notify you that additional effluent limitations are necessary, or deny coverage under this permit and require submission of an application for an individual NPDES permit. In these instances, the Department will notify you in writing of the delay, of the need for additional effluent limits, or of the request for submission of an individual NPDES permit application.

1. Notice of Intent (NOI) and Transfer Requests

a. Notice of Intent (NOI)

You must complete all information required on this permit's corresponding NOI form (MDE-WMA-PER004), or an equivalent electronic form provided by the Department. Detailed instructions are included on the NOI form. If you operate multiple facilities you must submit an NOI for each noncontiguous site.

You are required to provide the following information on the appropriate NOI form.

- Facility Operator Information including your name, mailing address, email address, telephone number, IRS Employer Identification Number (EIN) and Worker's Comp Insurance company and policy.
- Facility Information including the facility location, including physical address and coordinates in degrees decimal; the primary and any subsequent co-located Standard Industrial Classification (SIC) codes relevant to this permit, verification if this is a new discharger or if there is any preexisting NPDES permit number for stormwater coverage, the total acres of property at that address and whether the facility is presently inactive and unstaffed.
- Outfall coordinates in degrees decimal, for each outfall discharging stormwater associated with Industrial Activity.

- Information on the receiving waters of the industrial stormwater. Identify the receiving water body(s) and 8 digit identifier for your discharges, including whether they qualify as high quality Tier II, and identification of any impairments. Specify the MS4 jurisdiction you operate in.
- Identify who has prepared the Stormwater Pollution Prevention Plan (SWPPP), including email and phone number, along with how you have provided the SWPPP to the Department.
- Identify if your facility is subject to the Chesapeake Bay Restoration requirements, quantifying the total impervious surface area (square feet), the untreated impervious surface area (in square feet) and the impervious surface area subject to 20% restoration requirement (in acres).
- Identify which industry sector benchmarks apply to the operation, for each applicable outfall.
- Selection of either annual payments, or an upfront payment for 5 years and annual payments thereafter, or if you are exempt.
- Provide the signatory name, title and contact information and space for the actual signature. Provide the NOI preparer information, including phone number and email address.

b. Transfer of Authorization.
For transfer of ownership, you can complete the Permit Transfer Request Form for General NPDES Permits referred to as MDE/WMA/PER.079 found on the Department's website or at https://mdewwp.page.link/GPXferForm[HYPERLINK "http://bit.ly/MDE_Transfer_Request" \h]. Detailed instructions are included with the form. If you operate multiple facilities you must submit a Transfer Request for each noncontiguous site. The authorization under this permit is not transferable to any person except in accordance with this section. Authorization to discharge under this permit may be transferred to another person if:

- The current permittee notifies the Department in writing of the proposed transfer.
- A written agreement, indicating the specific date of the proposed transfer of permit coverage and acknowledging the responsibilities of the current and new permittee for compliance with the terms and conditions of this permit, is submitted to the Department.
- The new permittee either confirms in writing that the type of discharge, number of outfalls, and other information given on the original NOI remain correct or updates this information.
- The new permittee confirms in writing that either they will follow the existing stormwater pollution prevention plan or that they have developed a new plan.
- Neither the current permittee nor the new permittee receives notification from the Department, within 30 days of receipt of items above, of intent to terminate coverage under this permit.

2. Permit Fee

a. You must submit the initial permit fee to the Department with the NOI form for the fee in effect at the time that the payment is due as specified in COMAR 26.08.04.09-1(C)(1)(a).

b. Make the initial fee payable to the Maryland Department of the Environment and

send it together with the completed NOI to:

Maryland Department of the Environment
P.O. Box 2057
Baltimore, MD 21203-2057

c. If you pay the NOI fee by a check that does not clear for any reason, you will have 30 calendar days to make proper payment, including any interest and other charges. If payment is not received by the 31st calendar day, your coverage under this permit must be considered void from the outset. You should save the cancelled check, a copy of the completed NOI, and the letter confirming your authorization from the Department. These documents must be provided to the Department upon request.

d. A new owner of a facility as a result of a transfer of ownership is responsible for any fees unpaid by the former owner.

3. SWPPP

Proper formats for submitting your SWPPP are provided below.

a. You should not include any confidential information in your submitted SWPPP, which will be a public document available for review by the public.

b. You must submit an electronic copy of the SWPPP to the Department and have a hard copy available onsite. Your electronic copy (PDF, JPEG or Word) of the SWPPP must be provided to the Department by one of these methods.

i.) Including a file on electronic media (CD, DVD, USB drive, or other approved media) along with your mailed copy of the NOI.

ii.) Emailing the file to [HYPERLINK "mailto:swppp.permit@maryland.gov" \h] when you send your NOI to the Department. The email cannot exceed 25 MB and so you may need to use more than one email to deliver the entire file. The email subject line should include "12SW", your previous registration number (if you did have previous coverage under 02SW) and your facility name.

iii.) Posting a copy of the SWPPP using your NetDMR account when you send your NOI to the Department.

iv.) Providing the Department a link (URL) to your document on your NOI, which provides access to your SWPPP on a publicly available company website.

v.) Other electronic means that you make accessible to the Department such as a link to DropBox, Google Drive, SkyDrive, etc.

B. Deadlines for Coverage

You will be in violation of state and federal requirements to obtain a permit and subject to enforcement action by the Department if you fail to submit a i) No Exposure Certification, or ii) an NOI, SWPPP and fee payment or iii) transfer request in a timely manner as provided in the following table. Late NOIs will be accepted, but authorization to discharge will not be retroactive.

Category	Coverage Submittal Deadline
Existing Dischargers – in operation as of Effective Date of this permit and previously authorized for coverage under 12-SW, that are not subject to Chesapeake Bay Restoration Requirements (Part III.A).	Within 6 weeks after the effective date of this permit. Authorization to discharge under 12-SW continues in the interim.
Existing Dischargers – in operation as of Effective Date of this permit and previously authorized for coverage under 12-SW that are subject to Chesapeake Bay Restoration Requirements (Part III.A).	Within 6 months after the effective date of this permit. Authorization to discharge under 12-SW continues in the interim.

New Dischargers or New Sources	A minimum of 60 days prior to commencing discharge.
New Owner/Operator of Existing Discharger - transfer of ownership and/or operation of a facility whose discharge is authorized under this permit	A minimum of 30 days prior to date that the transfer will take place to the new owner/operator.
Other Eligible Dischargers – in operation prior to permit effective date, but not covered under the 12-SW or another NPDES permit.	Immediately, to minimize the time discharges from the facility will continue to be unauthorized.

C. Required Signatures

1. Certification
   Any person signing documents in accordance with part II.C.2 and II.C.3 above must include the following certification:
   "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

2. All applications, including NOIs, transfer requests, and No Exposure Certifications must be signed by a Signatory as follows:
   - **a.** *For a corporation*: By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
     - ***i.)*** a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation; or
     - ***ii.)*** the manager of one or more properties belonging to the owner, provided the manager is authorized to make management decisions which govern the operation of the regulated facility having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
   - **b.** *For a partnership or sole proprietorship:* By a general partner or the proprietor, respectively; or
   - **c.** *For a municipality, State, Federal, or other public agency:* By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:
     - ***i.)*** the chief executive officer of the agency; or
     - ***ii.)*** a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of the EPA).

3. Your SWPPP, including changes to your SWPPP to document any corrective actions taken as required by Part IV, and all reports submitted to the Department, must be signed by a person described in Part II.C.2 above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
   a. the authorization is made in writing by a Signatory;
   b. the authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, or a position of equivalent responsibility or an individual or position having overall responsibility for environmental matters for the company (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and
   c. the signed and dated written authorization is included in the SWPPP and made available to the Department upon request.

4. If an authorization for a representative is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of PART II.C.3 must be submitted to the Department prior to submitting or with any reports, information or applications that must be signed by a duly authorized representative.

D. Failure to Notify

If you (1) engage in an activity covered under this permit, (2) fail to notify the Department of your intent (Part II.A) to be covered under this permit within the deadlines established in this permit (Part II.B) , and (3) discharge to waters of the state without an individual NPDES discharge permit, then you are in violation of the Federal Clean Water Act and of the Environment Article, Annotated Code of Maryland, and may be subject to penalties.

E. Additional Notification

If stormwater from your facility discharges into a Municipal Separate Storm Sewer System (MS4) you must notify the MS4 that you are registered under this permit if the system is regulated by a NPDES permit. If the MS4 notifies you of additional requirements that you must meet to discharge into that system then you must comply with those requirements to stay eligible for this permit.

F. Changes in Permit Coverage

Certain planned changes in stormwater discharge or termination of permit coverage, both described below in this section, require notification to the Department's Water Permits Program at this address:

Maryland Department of the Environment
Wastewater Permits Program
1800 Washington Blvd, Ste 455
Baltimore, MD 21230

1. Planned Changes
   When possible consider the contours/elevations at a particular site and aim to site new structures on the higher elevations at a site and put parking or other structures that can be flooded at the lower elevations, in anticipation of climate change effects. You must give written notice to Department's Water Permits Program as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

d. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b); or

e. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under 40 CFR 122.42(a)(1).

2. Termination of Permit Coverage

a. Submitting a Notice of Termination

To terminate permit coverage, you must submit a complete and accurate Notice of Termination (NOT) https://mdewwp.page.link/GPNOT to the Wastewater Permits Program, or an equivalent electronic form provided by the Department. Your authorization to discharge under this permit terminates at midnight of the day that a complete Notice of Termination is processed and acknowledged by the Department. If you submit a Notice of Termination without meeting one or more of the conditions identified in Part II. F.2.b, then your Notice of Termination is not valid. You are responsible for meeting the terms of this permit until your authorization is terminated.

b. When to Submit a Notice of Termination

You must submit a Notice of Termination within 30 days after one or more of the following conditions have been met:

i.) All operations at your facility have permanently ceased and there will be no further exposure of stormwater to any industrial activity, process, material or transport at the facility , and you have already implemented necessary sediment and erosion controls as required by Part III.B.1.b.v; or

ii.) You move your operation to a new location (After submitting an NOT you must then apply for coverage at the new location per Part II.); or

iii.) A new owner or operator has taken over responsibility for the facility; or

iv.) You have obtained coverage under an individual or alternative general permit for all discharges required to be covered by an NPDES permit, unless the Department has required that you obtain such coverage under Part I.E.4, in which case coverage under this permit will terminate automatically.

c. The Department may terminate your coverage under this general permit if the Department finds good cause to do so.

G. Requirement to Post a Sign of your Permit Coverage.

You must post a sign or other notice of your permit coverage at a safe, publicly accessible location in close proximity to your facility and at potentially impacted public access areas. You must use a font large enough to be readily viewed from a public right-of-way and conduct periodic maintenance of the sign to ensure that it is legible, viable, and factually correct. At minimum, the sign must include:

1. The State and NPDES permit number (i.e., permit tracking number assigned to your NOI);

2. The Departments wastewater permits portal URL https://mdewwp.page.link/WWPPortal and

3. A contact name and phone number for obtaining additional facility information.

Provides discharge authorization only upon Maryland Department of the Environment notification of registration.

PART III. STORMWATER MANAGEMENT REQUIREMENTS

A. Chesapeake Bay Restoration Requirements

You must comply with the requirements in this section if you meet ALL of these criteria:

- your facility is within the Chesapeake Bay Watershed;
- your facility is 5 acres or greater in size;
- any portion of your facility is located within a Phase I or Phase II municipal separate storm sewer system (MS4) jurisdiction[1]; and
- your facility is not owned by or leased from an entity that is permitted as an MS4.

All facilities not owned by or leased from an entity that is permitted as an MS4, including those smaller than 5 acres, have the option to perform restoration to create marketable credits in accordance with any final Maryland Water Quality Trading Program regulations (COMAR 26.08.11). Marketable credits for those facilities smaller than 5 acres would include any treatment of impervious surfaces added since January 1, 2006, and marketable credits for those facilities 5 acres or greater would be any restoration in excess of the 20% requirement in this permit. (Refer to Appendix G).

1. Control Measures for Nutrient Reduction
   - **a.** You must select, design, install and implement restoration of 20% of the untreated impervious surface area at your facility or equivalent control measures for the reduction of nutrients.
     - ***i.)*** Restoration of impervious surfaces and allowed equivalent control measures are defined in paragraph "c" below.
     - ***ii.)*** "Untreated" means not meeting the definition of treatment in Appendix E, "Treatment of Impervious Surfaces." The amount of required restoration is determined from the impervious areas within your permitted industrial area as defined in paragraph "b" below. However the control measures may be implemented outside this industrial area, including but not limited to restoration of parking lots within your entire facility, or projects offsite in coordination with your local stormwater authority as described in paragraphs "c" or "d" below.
     - ***iii.)*** The control measures must be fully implemented within the time frame described in paragraph "e" below and must be consistent with other MDE policies as described in paragraphs "f" and "g" below.
   - **b.** The total area of untreated impervious surfaces that existed at your facility on January 1, 2006, as determined to the best of your ability, shall be your baseline for determining the applicable amount of control measures. For the purposes of this permit requirement, impervious surfaces are those surfaces that do not allow stormwater to infiltrate into the ground and may include any driveway, road or parking lot that is paved (concrete, asphalt) or used for vehicular storage or traffic, any building or storage facility rooftop, any water resistant material covers, any sidewalks/paths, any decks, any paved storage areas, any tanks or containment structures or any surfaces that are paved or covered for other reasons. These impervious surfaces also must collect or convey stormwater discharges associated with industrial activity (as defined in Appendix E "Stormwater Discharges Associated with Industrial Activity"), for your primary industrial or co-located industrial activities at your facility.
   - **c.** Control measures must be designed and implemented using any combination of the following three methods. Any treatment of impervious surfaces added since January

[1] Including operators in the 13-IM-5500 (MDR055500) Phase 2 jurisdictions.

1, 2006 may be counted towards meeting the 20% requirement (including restoration completed under the previous permit 12SW).

i.) Practices found in the Design Manual (as defined in Appendix E, "Design Manual"), or other Proprietary Practices (as defined in Appendix E, "Proprietary Practices") approved by the Department. Restoration of impervious surfaces is defined as the treatment of untreated impervious surfaces with structural or non-structural stormwater management practices using structural best management practices (BMPs) found in the Design Manual, or through other Proprietary Practices approved by the Department, based upon designs that treat the volume from one inch of rainfall. Successful implementation of these structural BMPs in the industrial environment also requires some flexibility to accommodate site specific conditions. Restoration opportunities should be pursued where they make sense and where engineering adjustments allow for the successful functioning of any BMP used. The sources of pollutants that may impede the practices may require specific consideration such as pretreatment.

ii.) Practices found in the Accounting Guidance (as defined in Appendix E, "Accounting Guidance"). This nutrient accounting guidance provides several approved equivalent controls used by municipalities ranging from street sweeping to septic system upgrades, which can be considered by industrial facilities. In addition, this guidance addresses situations where site constraints prevent the capture of the full one inch or Water Quality Volume (WQv) treatment, and in these situations the impervious area considered as treated shall be pro-rated based on the total volume treated. The total impervious surface area draining to a BMP may be considered treated when the full WQv is provided for one inch of rainfall; otherwise, proportional treatment will be granted based on the percentage of the WQv captured. For example, if only a half inch of rainfall is treated, then only one half of the impervious surface area in the drainage area shall be considered treated.

iii.) Other equivalent control measures. Measures that achieve reduction of 5.4 lbs total nitrogen (TN) per year shall be considered equivalent to restoration of one acre of impervious surface area. The equivalent measures may include any of these options.

- New controls required by this permit for erosion and sediment control, or for reduced use of fertilizer. Refer to EPA Chesapeake Bay Program Office Phase 5.3 Community Watershed Model, dated December 2010, for guidance on evaluating reductions. This is referred to by document number "EPA 903S10002 - CBP/TRS-303-10" and can be found at the website "[HYPERLINK "http://ches.communitymodeling.org/models/CBPhase5/documentation.php" \h]". New erosion and sediment control reduction efficiencies are found in this document under "6.7.3 Erosion and Sediment Control" and reduced use of fertilizer load reductions are found under "6.7.10 Urban Nutrient Management".
- New controls to achieve the benchmarks for nitrogen required by this permit, if benchmarks are applicable for your facility. The control design and resulting TN reductions must be fully documented and approved by the Department.
- Reducing an existing TN load allocation under an individual NPDES permit, issued to the permittee.

d. You must implement these control measures (Part III.A.1.c) at your facility(s) unless infeasible (as defined in Appendix E, "Infeasible"). If it is infeasible to implement any

or all of these practices at your facility(s), you may satisfy the restoration requirement by working through your local jurisdiction to implement project(s) offsite or through trading to acquire credits, but only as authorized under, and in accordance with the Maryland Water Quality Trading Program regulations (COMAR 26.08.11). If you intend to trade to meet these requirements, you must

i.) notify the Department and address all applicable regulatory requirements, including all reporting and notification requirements under Appendix G of this permit;

ii.) translate the restoration requirements from impervious acres to Total Nitrogen (TN), Total Phosphorus (TP) and Sediment (TSS), using the calculation method prescribed by COMAR 26.08.11; and

iii.) complete the acquisition of verified credits no later than 3 months (end of March) following the end of the calendar year in which the credits are applicable..

e. For facilities that were registered for coverage under the 12-SW that were subject to restoration, the control measures must be implemented under the terms the previous permit . For all other permittees that were not subject to restoration in the previous permit or that are new, the control measures must be implemented within four (4) years from the date you file an NOI, and this deadline will continue into the next General Permit issued by the State if the General Permit renewal occurs prior to your implementation deadline.

f. The reduction of nutrients associated with compliance with the 20% restoration requirement shall not generate any marketable credits. Reductions beyond the requirements in this permit may be eligible as marketable credits in accordance with Maryland Water Quality Trading Program regulations (COMAR 26.08.11).

g. This requirement must be implemented in a manner that is consistent with any other permits, schedules or requirements by the Department for the control or mitigation of pollutants at the site.

2. Nutrient Control Measure Planning and SWPPP Documentation

For those facilities that were entirely developed or entirely redeveloped after 2002, such that all impervious surfaces have been treated with stormwater BMPs in the Design Manual, you must complete only step “a” and step “b” below and document the results in your SWPPP. For all other facilities, you must develop a plan by completing all the following steps and document in your SWPPP (required in Part III.C.4 of this permit) the results of each step.

a. Identify all impervious surfaces that are subject to this permit, as defined in Part III.A.1.a, and calculate the total impervious surface area for your facility.

b. Identify the impervious surface area treated with existing stormwater best management practices (BMPs) that provide the full one inch or WQv treatment (as defined in Appendix E, "Treatment of Impervious Surfaces").

c. Identify the impervious surface area partially treated by existing stormwater best management practices (BMPs) that don’t provide the full one inch or WQv treatment. Convert the partially treated area total to its equivalent fully treated area total by applying a proportional factor based on the percentage of the WQv captured. This result is the “adjusted partially treated area.” For example, if only a half inch of rainfall is treated, then only one half of the impervious surface area in the drainage area shall be considered treated.

d. Subtract the treated area result in “b” above and the adjusted partially treated area result in “c” above from the total impervious surface area result in “a” above. The resulting value represents the untreated impervious surface area.

e. Multiply the untreated impervious surface area (result in “d” above) by 20% to calculate the impervious surface area subject to the 20% control measure

requirement. Convert this area to acres by dividing your square feet of impervious area by 43,560.

f. Determine all of your available options as follows:
- ***i.)*** restoration control measures using the Design Manual and/or Proprietary Practices as referenced in Part III.A.1.c.i;
- ***ii.)*** control measure alternatives through the Accounting Guidance as referenced in Part III.A.1.c.ii; and
- ***iii.)*** equivalent control measures as referenced in Part III.A.1.c.iii.

g. Evaluate and then select practices from the options (identified in "f" above) that you will implement to comply with the control measure requirement of this permit (result in "e" above).

h. If after evaluating your potential options for nutrient reductions, you determine it is infeasible to meet the nutrient reduction requirements at your facility, provide your rationale and describe your alternate plan and schedule consistent with Part III.A.1.d for coordinating with the local jurisdiction to implement equivalent off-site projects.

i. Document your selection of BMPs and equivalent measures, including calculations that show your approach will achieve the nutrient reduction requirement.

j. Provide a schedule and basis for all options you selected that cannot be implemented within 30 days of registration under this permit.

k. Specify appropriate routine maintenance schedules for all new and existing BMPs. Include in your plan a procedure for inspection and documentation of those inspections for all structural, nonstructural and other equivalent control measures.

l. Modify the resulting plan as needed to keep implementation on pace to meet the permit deadline in Part III.A.1.e.

3. Nutrient Control Measure Verification

a. When the required selection of BMPs and equivalent measures have been implemented, you shall obtain written certification by either a Professional Engineer (PE), a Certified Professional in Storm Water Quality (CPSWQ), a Registered Architect, or a Landscape Architect. The certification shall be kept with your SWPPP. This certification is to provide verification that:

- the type and capacity of the control(s) specified in the SWPPP meet the current design standards specified in the Design Manual, approved Proprietary Practices specification or Accounting Guidance satisfying the permit restoration requirements;
- all equivalent measures specified in the SWPPP have been implemented to achieve the planned nutrient reduction levels;
- all structural BMPs in the SWPPP are properly maintained in accordance with approved design plans;
- all BMPs are supported by procedures in the SWPPP for required inspections and testing;
- all BMPs are fully implemented; and
- the professional signing the verification has visited and examined the facility.

b. Y ou must provide an updated SWPPP and complete the Nutrient Reduction Progress Report Form, provided in Appendix F, and send both documents to the Department within four (4) years from the date you file an NOI.

4. Ongoing Requirements:

a. For those facilities that have certified their implementation of the Chesapeake Bay

Restoration requirements of this permit (see Part III.A. 3), and for those facilities who have reached their required deadline for certification, you must continue to maintain structural practices, and/or continue to perform any non-structural requirements (such as street sweeping or trading), yearly as required by this permit, as long as this permit remains effective (or administratively extended). You must document these continued maintenance, ongoing non-structural practices or trading requirements in your SWPPP (Part III.C.5.v).

b. Operators seeking to achieve nutrient reduction via trading must continue to provide additional information verification of compliance annually. (Refer to Appendix G).

B. Control Measures and Effluent Limits

In the technology-based limits included in Part III.B.1 and in Appendix D, the term "minimize" means reduce and/or eliminate to the extent achievable using control measures (including best management practices) that are technologically available and economically practicable and achievable in light of best industry practice.

1. Control Measures

Considering the control measure selection and design considerations, you must select, design, install, and implement control measures (including best management practices) to meet the non-numeric effluent limits, as described below. The selection, design, installation, and implementation of these control measures must be in accordance with good engineering practices and manufacturer's specifications. Note that you may deviate from such manufacturer's specifications where you provide justification for such deviation and include documentation of your rationale in the part of your SWPPP that describes your control measures. If you find that your control measures are not achieving their intended effect of minimizing pollutant discharges, you must modify these control measures as expeditiously as practicable. Regulated stormwater discharges from your facility include stormwater run-on that commingles with stormwater discharges associated with industrial activity at your facility.

a. *Control Measure Selection and Design Considerations*

You must consider the following when selecting and designing control measures:

i.) preventing stormwater from coming into contact with polluting materials is generally more effective, and less costly, than trying to remove pollutants from stormwater;

ii.) using control measures in combination is more effective than using control measures in isolation for minimizing pollutants in your stormwater discharge;

iii.) assessing the type and quantity of pollutants, including their potential to impact receiving water quality, is critical to designing effective control measures that will achieve the limits in this permit;

iv.) minimizing impervious areas at your facility and infiltrating runoff onsite (including bioretention cells, green roofs, and pervious pavement, among other approaches) can reduce runoff and improve groundwater recharge and stream base flows in local streams, although care must be taken to avoid ground water contamination;

v.) attenuating flow using open vegetated swales and natural depressions can reduce in-stream impacts of erosive flows;

vi.) conserving and/or restoring riparian buffers will help protect streams from stormwater runoff and improve water quality;

vii.) using treatment interceptors (e.g., swirl separators and sand filters) may be appropriate in some instances to minimize the discharge of pollutants; and

viii.) adapting operations to address climate change impacts by implementing structural improvements, enhanced pollution prevention measures, and other

mitigation measures, to minimize impacts from stormwater discharges from major storm events that cause extreme flooding conditions, such as the following:

- Reinforce materials storage structures to withstand flooding and additional exertion of force;
- Prevent floating of semi-stationary structures by elevating to the Base Flood Elevation (BFE)[2] level or securing with non-corrosive device;
- When a delivery of materials is expected, and a storm is anticipated within 48 hours, delay delivery until after the storm or store materials as appropriate (refer to emergency procedures);
- Temporarily store materials and waste above the BFE level;
- Temporarily reduce or eliminate outdoor storage;
- Temporarily relocate any mobile vehicles and equipment to upland areas;
- Develop scenario-based emergency procedures for major storms that are complementary to regular stormwater pollution prevention planning and identify emergency contacts for staff and contractors; and
- Conduct staff training for implementing your emergency procedures at regular intervals.

b. *Non-Numeric Technology-Based Effluent Limits (BPT/BAT/BCT)*

i.) *Minimize Exposure*. You must minimize the exposure of manufacturing, processing, and material storage areas (including loading and unloading, storage, disposal, cleaning, maintenance, and fueling operations) to rain, snow, snowmelt, and runoff by either locating these industrial materials and activities inside or protecting them with storm resistant coverings (although significant enlargement of impervious surface area is not recommended). You must store solid chemical products, chemical solutions, paints, oils, solvents, acids, caustic solutions and waste materials under cover on an impervious surface. In minimizing exposure, you should pay particular attention to the following:

- use grading, berming, or curbing to prevent runoff of contaminated flows and divert run-on away from these areas;
- locate materials, equipment, and activities so that leaks are contained in existing containment and diversion systems (confine the storage of leaky or leak-prone vehicles and equipment awaiting maintenance to protected areas);
- clean up spills and leaks promptly using dry methods (e.g., absorbents) to prevent the discharge of pollutants;
- use drip pans and absorbents under or around leaky vehicles and equipment or store indoors where feasible;
- use spill/overflow protection equipment;
- drain fluids from equipment and vehicles prior to onsite storage or disposal;
- perform all cleaning operations indoors, under cover, or in bermed areas that prevent runoff and run-on and also that capture any overspray; and

[2] Base Flood Elevation (BFE) is the computed elevation to which floodwater is anticipated to rise during the base flood. BFEs are shown on the Federal Emergency Management Agency's Flood Maps and on the flood profiles, which can be access through https://msc.fema.gov/portal/search.

- ensure that all washwater drains to a proper collection system (i.e., not the stormwater drainage system).

The discharge of vehicle and equipment washwater, including tank cleaning operations, is not authorized by this permit. These wastewaters must be covered under a separate NPDES permit, discharged to a sanitary sewer in accordance with applicable industrial pretreatment requirements, or disposed of otherwise in accordance with applicable law.

Note: Industrial materials do not need to be enclosed or covered if stormwater runoff from affected areas will not be discharged to receiving waters or if discharges are authorized under another NPDES permit.

ii.) *Good Housekeeping.* You must keep clean all exposed areas that are potential sources of pollutants, using such measures as sweeping at regular intervals, keeping materials orderly and labeled, and storing materials in appropriate containers. A good practice for ensuring housekeeping activities are performed at regular intervals would be keeping a schedule for routine grounds maintenance and cleanup.

iii.) *Maintenance.* You must regularly inspect, test, maintain, and repair all industrial equipment and systems to avoid situations that may result in leaks, spills, and other releases of pollutants in stormwater discharged to receiving waters. You must maintain all stormwater control measures used to restore impervious surfaces. You must also maintain all control measures that are used to achieve the effluent limits required by this permit in effective operating condition. Particular care should be taken to inspect compaction dumpsters to prevent debris around or under the dumpster as well as prevent hydraulic fluid leakage. Nonstructural control measures must also be diligently maintained (e.g., spill response supplies available, personnel appropriately trained). If you find that your control measures need to be replaced or repaired, you must make the necessary repairs or modifications as expeditiously as practicable.

iv.) *Spill Prevention and Response Procedures.* You must minimize the potential for leaks, spills and other releases that may be exposed to stormwater and develop plans for effective response to such spills if or when they occur. These procedures are complementary to and do not replace any requirements of RCRA (42 U.S.C. §6901), the Department's Land and Materials Administration Oil Control Program, NFPA 30 Flammable and Combustible Liquids Code or the Spill Prevention, Control and Countermeasure (SPCC) Plan (as a requirement of 40 CFR § 112), At a minimum, you must implement:

- Procedures for plainly labeling containers (e.g., "Used Oil," "Spent Solvents," "Fertilizers and Pesticides," etc.) that could be susceptible to spillage or leakage to encourage proper handling and facilitate rapid response if spills or leaks occur;
- Quarterly inspection procedures for containers that are susceptible to spillage or leakage (e.g., used oil) to ensure the containment structures have no leaks/cracks, and that the outlets are properly sealed. Check that plugs are properly affixed, that valves are in working condition, and that neither are leaking;
- Procedure for the discharge of any stormwater from a containment structure, requiring that a sample is taken to ensure that no visible or odorous pollutants are discharged. If a sample contains a visible sheen, floating solids or a noxious smell, then you must discharge the remaining wastewater to a sanitary sewer system or haul it to a recycler or TSDF (Treatment Storage & Disposal Facilities) or disposal facility;

- Preventative measures such as barriers between material storage and traffic areas, secondary containment provisions, and procedures for material storage and handling;
- Procedures for expeditiously stopping, containing, and cleaning up leaks, spills, and other releases. Employees who may cause, detect, or respond to a spill or leak must be trained in these procedures and have necessary spill response equipment available. If possible, one of these individuals should be a member of your stormwater pollution prevention team as described in Part III.C.1; and
- Procedures for notification of appropriate facility personnel, emergency response agencies, and regulatory agencies. Where a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302, occurs during a 24-hour period, you must notify the Department's Emergency Spill Response number at (866) 633-4686 and EPA's National Response Center (NRC) at (800) 424-8802 or, in the Washington, DC, metropolitan area, call (202) 267-2675 in accordance with the requirements of 40 CFR Part 110, 40 CFR Part 117, and 40 CFR Part 302 as soon as you have knowledge of the discharge. Local requirements may necessitate reporting spills or discharges to local emergency response, public health, or drinking water supply agencies. Contact information must be in locations that are readily accessible and available.

v.) *Erosion and Sediment Controls.* You must stabilize exposed areas and contain runoff using structural and/or non-structural control measures to minimize onsite erosion and sedimentation, and the resulting discharge of pollutants. Among other actions you must take to meet this limit, you must place flow velocity dissipation devices at discharge locations and within outfall channels where necessary to reduce erosion and/or settle out pollutants. In selecting, designing, installing, and implementing appropriate control measures, you are encouraged to consult with the Department's Soil Erosion & Sediment Control Handbook, EPA's internet-based resources relating to BMPs for erosion and sedimentation, including the sector-specific Industrial Stormwater Fact Sheet Series, (https://mdewwp.page.link/ISWGuidance), and National Management Measures to Control Nonpoint Source Pollution from Urban Areas (https://mdewwp.page.link/NPSFS).

vi.) *Management of Runoff.* You must divert, infiltrate, reuse, contain, or otherwise reduce stormwater runoff, to minimize pollutants in your discharges. In selecting, designing, installing, and implementing appropriate control measures, you are encouraged to consult with the Department's Design Manual, EPA's internet-based resources relating to runoff management, including the sector-specific Industrial Stormwater Fact Sheet Series, (https://mdewwp.page.link/ISWGuidance), and National Menu of Stormwater BMPs (https://mdewwp.page.link/SWBMPs).

vii.) *Salt Storage Piles or Piles Containing Salt.* You must enclose or cover storage piles of salt, or piles containing salt, used for deicing or other commercial or industrial purposes, including maintenance of paved surfaces. Refer to Sector Specific requirements for Sector AD.d for additional requirements for Salt Terminals You must implement appropriate measures (e.g., good housekeeping, diversions, containment) to minimize exposure resulting from adding to or removing materials from the pile. Piles do not need to be enclosed or covered if

stormwater runoff from the piles is not discharged or if discharges from the piles are authorized under another NPDES or State discharge permit.

viii.) *Sector Specific Non-Numeric Effluent Limits.* Appendix A of this permit identifies your specific Industry Sector. You must achieve any additional non-numeric limits stipulated in the relevant sector-specific section(s) of Appendix D: Sector-Specific Requirements for Industrial Activity.

ix.) *Employee Training.* You must train all employees who work in areas where industrial materials or activities are exposed to stormwater, or who are responsible for implementing activities necessary to meet the conditions of this permit (e.g., inspectors, maintenance personnel), including all members of your stormwater pollution prevention team described in Part III.C.1, below. Training must cover the specific control measures used to achieve the effluent limits in this part, and monitoring, inspection, planning, reporting, and documentation requirements in other parts of this permit. As part of the employee training program you must address, at a minimum, the following activities (as applicable): used oil management, spent solvent and paint management, disposal of spent abrasives (e.g., blasting materials, etc.), spill prevention and control, fueling procedures, general good housekeeping practices (e.g., dumpster/debris removal), used battery management, waste recycling (e.g., metals, plastics), used container controls (e.g., re-banding barrels, plugging drums), etc. The Department recommends training be conducted at least annually (or more often if employee turnover is high).

x.) *Non-Stormwater Discharges.* You must eliminate non-stormwater discharges not authorized by a NPDES or State discharge permit. See Part I.E.3 for a list of non-stormwater discharges authorized by this permit.

xi.) *Waste, Garbage and Floatable Debris.* You must ensure that waste, garbage, and floatable debris are not discharged to receiving waters by keeping exposed areas free of such materials or by intercepting them before they are discharged. The Department recommends practices including placing garbage or recycling containers at traffic areas, and identifying a schedule for personnel to walk site for trash and litter daily/weekly/monthly, etc.

xii.) *Dust Generation and Vehicle Tracking of Industrial Materials.* You must minimize generation of dust and offsite tracking of raw, final, or waste materials.

2. Water Quality-Based Effluent Limitations

a. *Water Quality Standards*

Your discharge must be controlled as necessary to meet applicable water quality standards. The Department expects that compliance with the other conditions in this permit will control discharges as necessary to meet applicable water quality standards. There shall be no discharge that causes visible oil sheen, and no discharge of floating solids or persistent foam in other than trace amounts. Persistent foam is foam that does not dissipate within one half-hour of point of discharge. If at any time you become aware, or the Department determines, that your discharge causes or contributes to an exceedance of applicable water quality standards, then you must (1) take corrective action, (2) document the corrective actions, and (3) report the corrective actions to the Department's Water and Science Administration Compliance Program as required by Part IV. Additionally, if information in your NOI or required reports or if information from other sources indicates that your discharge is not controlled as necessary to meet applicable water quality standards, the Department may impose additional control measures (to meet narrative water quality-based effluent limit above in Part III.B) on a site-specific basis or require you to obtain coverage under an individual permit. You must implement all measures necessary to be consistent with an available wasteload allocation in an EPA

established or approved TMDL, including the restoration requirements (Part III.A).

b. *Discharges to Water Quality Impaired Waters*
You are considered to discharge to an impaired water if the first Water of This State to which you discharge is identified by the State, or EPA as not meeting an applicable water quality standard, and:

- Requires development of a TMDL (pursuant to section 303(d) of theCWA);
- Is addressed by an EPA-approved or established TMDL;or
- Is not in either of the above categories but the waterbody is covered by a pollution control program that meets the requirements of 40 CFR130.7(b)(1).

Note: For discharges that enter a separate storm sewer system prior to discharge, the first Water of This State to which you discharge is the waterbody that receives the water from the storm sewer system.

i.) *Existing Discharge to an Impaired Water with an EPA-Approved or Established TMDL.* If you discharge to an impaired water with an EPA-approved or established TMDL, the Department will inform you if any additional monitoring, limits or controls are necessary for your discharge to be consistent with the assumptions of any available wasteload allocation in an EPA Approved TMDL, or if coverage under an individual permit is necessary in accordance with Part I.G.

ii.) *Existing Discharger to an Impaired Water without an EPA-Approved or Established TMDL.* If you discharge to an impaired water without an EPA-approved or established TMDL, the Department will inform you as to what actions are required required to comply with Part III.B.2.a, and the monitoring requirements of Part V.B.3. Note that the impaired waters monitoring requirements of Part V.B.3 also apply where the Department determines that your discharge is not controlled as necessary to meet applicable water quality standards in an impaired downstream water segment, even if your discharge is to a receiving water that is not identified as impaired according to Part III.B.2.b.

iii.) *New Discharger or New Source to an Impaired Water.* If your authorization to discharge under this permit relied on Part I.C.5 for a new discharger or a new source to an impaired water, you must implement and maintain any measures that enabled you to become eligible under Part I.C.5, as determined by the Department and modify such measures as necessary pursuant to any corrective actions. The Department will also inform you as to what actions are required to comply with Part III.B.2.a and the monitoring requirements of Parts V.B.3.

c. *Tier II Antidegradation Requirements for New or Increased Dischargers*
If you are a new discharger or are required to notify the Department of a modified discharge (Part II.F.1), and you discharge directly to waters designated by the State as Tier II for antidegradation purposes under 40 CFR 131.12(a), the Department may notify you that additional analyses, control measures, or other permit conditions are necessary to comply with the applicable antidegradation requirements, or notify you that an individual permit application is necessary in accordance with Part I.G.

d. *Criteria Selection*
Any additional numerical water quality based limits for any specific discharger under Part III.B.2 of the permit shall be based solely on Maryland's Numeric Water Criteria for Designated Uses in COMAR 26.08.02.03-3 and Maryland's Criteria for Toxic Substances in Surface Waters in COMAR 26.08.02.03-2, applied at end of pipe, or the applicable wasteload allocation in a final approved TMDL. For any additional control requested by the Department you must include a plan to implement BMPs to address the pollutant of concern in your SWPPP.

C. Stormwater Pollution Prevention Plan (SWPPP) Requirements

The SWPPP is intended to document the selection, design, and installation of control measures. The SWPPP does not contain effluent limitations; the limitations are contained in Part III.A, and Part III.B of the permit, and, for some Industry Sectors, Appendix D of the permit.

Upon registration under this Permit, if you are also subject to other individual NPDES permits or have coverage under an industry-specific general permit for the discharge of stormwater associated with industrial activity, then the requirements of this permit supersede the SWPPP requirements of the other permit(s). All other requirements of the other permit(s) remain in full effect.

Your SWPPP must contain all of the following elements, as described below. You must also meet all of this section's additional SWPPP requirements.

- Stormwater pollution prevention team (see Part III.C.1);
- Site description (see Part III.C.2);
- Summary of potential pollutant sources (see Part III.C.3);
- Description of control measures (see Part III.C.4);
- Schedules and procedures (see Part III.C.5); and
- Signature requirements (see Part III.C.6).

3. Stormwater Pollution Prevention Team

You must identify the staff members (by name or title) that comprise the facility's stormwater pollution prevention team as well as their individual responsibilities. Your stormwater pollution prevention team is responsible for assisting the facility manager in developing and revising the facility's SWPPP as well as maintaining control measures and taking corrective actions where required. Each member of the stormwater pollution prevention team must have ready access to either an electronic or paper copy of applicable portions of this permit and your SWPPP.

4. Site Description

Your SWPPP must include the following:

a. *Activities at the Facility.* Provide a description of the nature of the industrial activities at your facility.

b. *General location map.* Provide a general location map (e.g., U.S. Geological Survey (USGS) quadrangle map) with enough detail to identify the location of your facility. Ideally this map will extend one-quarter of a mile beyond the property boundaries of the facility and identify any water body where discharge is conveyed. At least one public roadway must be identified on the map.

c. *Site map.* Provide a map showing:

i.) the size of the property in acres;

ii.) the location and extent of significant structures and impervious surfaces

iii.) the location and extent for planned restoration of impervious surfaces, or other nutrient reduction control measures;

iv.) directions of stormwater flow (use arrows);

v.) locations of all existing structural control measures or BMPs;

vi.) locations of all receiving waters in the immediate vicinity of your facility, indicating if any of the waters are impaired and, if so, whether the waters have

TMDLs established for them;

vii.) locations of all stormwater conveyances including ditches, pipes, and swales;

viii.) locations of potential pollutant sources identified under Part III.C.3;

ix.) locations where significant spills or leaks identified under Part III.C.3 have occurred;

x.) locations of all stormwater monitoring points;

xi.) locations of stormwater inlets and outfalls, with a unique identification code for each outfall (e.g., Outfall No. 1, No. 2, etc), indicating if you are treating one or more outfalls as substantially identical, and an approximate outline of the areas draining to each outfall;

xii.) municipal separate storm sewer systems, where your stormwater discharges to them;

xiii.) locations and descriptions of all non-stormwater discharges identified under Part I.E.3;

xiv.) locations of the following activities where such activities are exposed to precipitation:

- fueling stations;
- vehicle and equipment maintenance and/or cleaning areas;
- loading/unloading areas;
- locations used for the treatment, storage, or disposal of wastes;
- liquid storage tanks;
- processing and storage areas;
- immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility;
- transfer areas for substances in bulk; and
- machinery;
- manufacturing buildings and

xv.) locations and sources of run-on to your site from adjacent property that contains significant quantities of pollutants.

5. Summary of Potential Pollutant Sources

You must document areas at your facility where industrial materials or activities are exposed to stormwater and from which allowable non-stormwater discharges are released. Industrial materials or activities include, but are not limited to: material handling equipment or activities; industrial machinery; raw materials; industrial production and processes; and intermediate products, by-products, final products, and waste products. Material handling activities include, but are not limited to: the storage, loading and unloading, transportation, disposal, or conveyance of any raw material, intermediate product, final product or waste product. For each area identified, the description must include:

a. *Activities in the area.* A list of the industrial activities exposed to stormwater (e.g., material storage; equipment fueling, maintenance, and cleaning; cutting steel beams).

b. *Pollutants.* A list of the pollutant(s) or pollutant constituents (e.g., crankcase oil, zinc, sulfuric acid, and cleaning solvents) associated with each identified activity. The pollutant list must include all significant materials that have been handled, treated, stored, or disposed, and that have been exposed to stormwater in the 3 years prior to the date you prepare or amend your SWPPP. In addition to your own evaluation, the

following resources or guidelines must be taken into account when determining the potential pollutants.

i.) The Department has included on the industrial stormwater website, the industry specific fact sheets produced by EPA, that do include potential pollutants based on your industrial activity.

ii.) Certain industries are potential sources of Polychlorinated Biphenyls (PCBs)[3], and should be aware of these for any required monitoring in this permit. These industries are included in Table III.C.3.b.ii below.

Table III.C.3.b.ii - Activities with higher likelihood to be source of Polychlorinated Biphenyls (PCB)

Sector or Subsector or (specific SICs)	Sector Description
(SIC 7600)	Miscellaneous Repair Service
(SIC 9700)	National Security and International Affairs
AA	FABRICATED METAL PRODUCTS
AB (SIC 3711-3799)	Transportation Equipment
AC (SIC 3612)	Transformers
B	PAPER AND ALLIED PRODUCTS
C (SIC 2812-2899)	Chemicals & Allied Products
F	PRIMARY METALS
M	AUTOMOBILE SALVAGE YARDS
N1	Scrap Recycling and Waste Recycling Facilities except Source-Separated Recycling.
P (SIC 4212-4215, 4231)	Motor Freight Transportation
P (SIC 4011)	Railroads, Line Haul Ops
Q	Water Transportation
R1	Ship and Boat Building or Repairing Yards
U	Food and Kindred Products
V (SIC 2211-2299)	Textile Mill Products
X	Printing Publishing & Allied Industries
Y1	Tires and Inner Tubes, Rubber and Plastics Footwear, Gaskets, Packing and Sealing Devices, and Rubber and Plastic Hoses and Belting, Fabricated Rubber Products, Not Elsewhere Classified

iii.) You must identify potential sources of certain per- and polyfluoroalkyl substances (PFAS) at your operation which could be exposed to stormwater and list and address these sources in your SWPP. The PFAS compounds of interest are those addressed in EPA methods 533 and 537.1. Sources would include areas where fire retardants were discharged or stored, or where PFAS containing material used in your production process is stored or disposed of or may be accidentally spilled. For more information review [HYPERLINK "https://www.epa.gov/pfas/basic-information-pfas" \t "_blank"]. You should also be aware that the Department may require ongoing monitoring under this permit if an impairment is identified in your receiving stream.

[3] "The Relationship between Polychlorinated Biphenyls (PCBs), VPDES Wastewater/Stormwater Facilities, Stormwater Industrial General Permitted Facilities (ISWGPs), and the Standard Industrial Classification System (SIC)", Virginia Department of Environmental Quality (VDEQ), Mark Richards & Will Isenberg, February 1, 2016.

c. *Spills and Leaks.* You must document where potential spills and leaks could occur that could contribute pollutants to stormwater discharges, and the corresponding outfall(s) that would be affected by such spills and leaks. You must document all significant spills and leaks of oil or toxic or hazardous pollutants that actually occurred at exposed areas, or that drained to a stormwater conveyance, in the 3 years prior to the date you prepare or amend your SWPPP. The plan may refer to applicable portions of other existing plans, such as Spill Prevention, Control, and Countermeasure (SPCC) plans required under 40 CFR Part 112. Discharges of precipitation from containment areas containing used oil must also be in accordance with applicable sections of 40 CFR Part 112.
Note: Significant spills and leaks include, but are not limited to, releases of oil or hazardous substances in excess of quantities that are reportable under CWA Section 311 (see 40 CFR 110.6 and 40 CFR 117.21) or Section 102 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 USC §9602. This permit does not relieve you of the reporting requirements of 40 CFR 110, 40 CFR 117, and 40 CFR 302 relating to spills or other releases of oils or hazardous substances.

d. *Non-Stormwater Discharges.* You must document that you have evaluated for the presence of non-stormwater discharges and that all unauthorized discharges have been eliminated. Documentation of your evaluation must include:

i.) The date of any evaluation;

ii.) A description of the evaluation criteria used;

iii.) A list of the outfalls or onsite drainage points that were directly observed during the evaluation;

iv.) The different types of non-stormwater discharge(s) and source locations; and

v.) The action(s) taken, such as a list of control measures used to eliminate unauthorized discharge(s), if any were identified. For example, a floor drain was sealed, a sink drain was re-routed to sanitary, wash water is collected and hauled away, or an NPDES permit application was submitted for an unauthorized cooling water discharge.

e. *Salt Storage.* You must document the location of any storage piles containing salt used for deicing or other commercial or industrial purposes.

f. *Sampling Data History.* You must summarize what you have observed (visual monitoring) or sampled for benchmarks (DMR data) as potential problems from stormwater during the previous permit term.

6. Description of Control Measures to Meet Technology- and Water Quality-Based Effluent Limits

You must document the location and type of control measures you have installed and implemented at your site to achieve the non-numeric effluent limits in Part III.B.1.b and, where applicable, in Appendix D Sector-Specific Requirements for Industrial Activity, and the water quality-based effluent limits in Part III.B.2, and describe how you are addressing the control measure selection and design considerations, if applicable, in Part III.A.1.a. This documentation must describe how the control measures at your site address both the pollutant sources identified in Part III.C.3 and any stormwater run-on that commingles with any discharges covered under this permit.

7. Schedules and Procedures

a. Pertaining to Control Measures Used to Comply with the Effluent Limits in Part III.B. The following must be documented in your SWPPP:

i.) *Good Housekeeping (See Part III.B.1.b.ii or Appendix D)* – A schedule for regular pickup and disposal of waste materials, along with routine inspections for leaks and conditions of drums, tanks and containers;

ii.) *Maintenance (See Part III.B.1.b.iii or Appendix D)* – Preventative maintenance procedures, including regular inspections, testing, maintenance, and repair of all industrial equipment and systems, and control measures, to avoid situations that may result in leaks, spills, and other releases, and any back-up practices in place should a runoff event occur while a control measure is off-line;

iii.) *Spill Prevention and Response Procedures (See Part III.B.1.b.iv or Appendix D)* – Procedures for preventing and responding to spills and leaks. You may reference the existence of other plans for Spill Prevention Control and Countermeasure (SPCC) developed for the facility under Section 311 of the CWA or BMP programs otherwise required by a NPDES permit for the facility, provided that you keep a copy of that other plan onsite and make it available for review consistent with Part III.C.8; and

iv.) *Employee Training (See Part III.B.1.b.ix or Appendix D)* – The SWPPP must identify how often training will take place. All training must be held at least once per calendar year (or more often if employee turnover is high).

v.) *Restoration Requirements* – You must identify the ongoing maintenance of restoration practices, non-structural practices, or ongoing trading required by this permit.

b. *Pertaining to Inspection and Monitoring*

i.) You must document in your SWPPP your procedures for performing, as appropriate, the three types of inspections specified by this permit, including:

- Routine facility inspections (see Part V.A.1);
- Quarterly visual assessment of stormwater discharges (see Part V.A.3); and
- Comprehensive site inspections (see Part V.A.2).

ii.) For each type of inspection performed, your SWPPP must identify:

- Person(s) or positions of person(s) responsible for inspection; and
- Specific items to be covered by the inspection, including schedules for specific outfalls.

iii.) If benchmark monitoring is required for your industry or industries, per Appendix D your SWPPP must document:

- Locations where samples are collected, including any determination that two or more outfalls are substantially identical;
- Parameters for sampling and the frequency of sampling for each parameter;
- Schedules for monitoring at your facility;
- Any numeric control values (benchmarks, TMDL-related requirements, or other requirements) applicable to discharges from each outfall; and
- Procedures (e.g., responsible staff, logistics, laboratory to be used, etc.) for gathering storm event data, as specified in Part V.C.

iv.) You must document the following in your SWPPP if you plan to use the substantially identical outfall exception for your quarterly visual assessment requirements in Part V.A.3 or your benchmark monitoring requirements in Part V.B:

- Location of each of the substantially identical outfalls;
- Description of the general industrial activities conducted in the drainage area of each outfall;
- Description of the control measures implemented in the drainage area of each outfall;

- Description of the exposed materials located in the drainage area of each outfall that are likely to be significant contributors of pollutants to stormwater discharges;
- An estimate of the runoff coefficient of the drainage areas (low = under 40%; medium = 40 to 65%; high = above 65%); and
- Why the outfalls are expected to discharge substantially identical effluents.

v.) If you are invoking the exception for inactive and unstaffed sites relating to routine facility inspections and quarterly visual assessments, you must include in your SWPPP the information to support this claim as required by Parts V.A.4. If you are invoking the exception for inactive and unstaffed sites for benchmark monitoring, you must include in your SWPPP the information to support this claim as required by Part V.B.5.

8. Signature Requirements
You must sign and date your SWPPP in accordance with Part II.C, including the date of signature.

9. Required SWPPP Modifications
You must modify your SWPPP whenever necessary to address any of the triggering conditions for corrective action in Part IV and to ensure that they do not reoccur, or to reflect changes implemented when a review following the triggering conditions in Part IV.B indicates that changes to your control measures are necessary to meet the effluent limits in this permit. Changes to your SWPPP document must be made in accordance with the corrective action deadlines in Parts IV.C and IV.D, and must be signed and dated in accordance with Part II.C.

10. Documentation Requirements
You must retain a copy of the current SWPPP required by this permit at your facility, and it must be immediately available to the Department. The Department encourages you to post your SWPPP online and provide the website address on your NOI. You are required to keep the following inspection, monitoring, and certification records with your SWPPP that together keep your records complete and up-to-date, and demonstrate your full compliance with the conditions of this permit:

a. A copy of the NOI submitted to the Department along with any correspondence exchanged between you and the Department specific to coverage under this permit;
b. A copy of this permit (an electronic copy easily available to SWPPP personnel is also acceptable);
c. A copy of the relevant portion of any other facility document referred to in your SWPPP, such as a Spill Prevention, Control and Countermeasure (SPCC) Plan;
d. Descriptions and dates of any incidences of significant spills, leaks, or other releases that resulted in discharges of pollutants to waters of the U.S., through stormwater or otherwise; the circumstances leading to the release and actions taken in response to the release; and measures taken to prevent the recurrence of such releases (see Part III.B.1.b.iv);
e. Records of employee training, including date training received (see Part III.B.1.b.ix);
f. Documentation of maintenance and repairs of control measures, including the date(s) of regular maintenance, date(s) of discovery of areas in need of repair/replacement, and for repairs, date(s) that the control measure(s) returned to full function, and the justification for any extended maintenance/repair schedules (see Part III.B.1.b.iii);

g. All inspection reports, including the Routine Facility Inspection documentation (see Part V.A.1), the Quarterly Visual Monitoring Form in Appendix B, and the Comprehensive Site Inspection reports (see Part V.A.2);

h. Description of any deviations from the schedule for visual assessments and/or monitoring, and the reason for the deviations (e.g., adverse weather or it was impracticable to collect samples within the first 30 minutes of a measurable storm event) (see Parts V.C.5);

i. Description of any corrective action taken at your site, including triggering event and dates when problems were discovered and modifications occurred;

j. Documentation of any benchmark exceedances and how they were responded to, including either (1) corrective action taken, (2) a finding that the exceedence was due to natural background pollutant levels, or (3) a finding that no further pollutant reductions were technologically available and economically practicable and achievable in light of best industry practice consistent with Part IV ;

k. Documentation to support any determination that pollutants of concern are not expected to be present above natural background levels if you discharge directly to impaired waters, and that such pollutants were not detected in your discharge or were solely attributable to natural background sources.

l. Schedule of compliance for nutrient control measure planning per Part III.A.2.

If during the term of this permit, your site becomes inactive, you must contact the Department immediately and provide, in writing, the date of inactivity, the facility contact phone number and the location of the SWPPP and additional documentation. These must be made available during normal working hours. Note inactivity does not refer to seasonal closures.

D. Additional Requirements for Facilities Subject To SARA Title III, Section 313 Requirements

If you are subject to SARA Title III, [HYPERLINK "http://www.epa.gov/ceppo/pubs/title3.pdf" \h] (42 U.S.C. 11023) reporting requirements, in your SWPPP you must, in addition to the requirements of this Part, provide additional narrative on the preventive measures used to eliminate the exposure of these chemicals to stormwater run-on or run-off. To identify if your facility is subject to this requirement, visit the Maryland Department of the Environment's [HYPERLINK "http://www.mde.maryland.gov/businessinfocenter/crtk/index.asp" \h] ([HYPERLINK "http://www.mde.maryland.gov/" \h]). A list of the Section 313 chemicals can be found at the [HYPERLINK "http://www.epa.gov/ceppo/pubs/title3.pdf" \h] ([HYPERLINK "http://www.epa.gov/" \h]). Additionally, SARA Title III, Section 313 water priority chemicals are often identified on Material Data Safety Sheets (MSDS).

PART IV. CORRECTIVE ACTIONS AND ADDITIONAL IMPLEMENTATION MEASURES (AIM)

A. Corrective Action

1. Conditions Requiring SWPPP Review and Revision to Ensure Effluent Limits are Met When any of the following conditions occur, or are detected during an inspection, monitoring or other means, or the Department or the operator of the MS4 through which you discharge informs you that any of the following conditions have occurred, you must review and revise , as appropriate, your SWPPP (e.g., sources of pollution; spill and leak procedures; nonstormwater discharges; the selection, design, installation, and implementation of your control measures) so that this permit's effluent limits are met and pollutant discharges are minimized :

a. an unauthorized release or discharge (e.g., spill, leak, or discharge of non-stormwater not authorized by this or another NPDES permit) occurs at your facility;

b. a discharge violates a numeric effluent limit;

c. your control measures are not stringent enough for the discharge to meet applicable water quality standards or the non-numeric effluent limits in this permit;

d. a required control measure was never installed, was installed incorrectly, or not in accordance with Parts III.A, III. B and/or in Appendix D, or is not being properly operated and maintained; or

e. whenever a visual assessment (Part V.A.3) shows evidence of stormwater pollution (e.g., color, odor, floating solids, settled solids, suspended solids, foam) .

2. Corrective Action Deadlines

a. Immediate Actions.

You must immediately take all reasonable steps to minimize or prevent the discharge of pollutants until you can implement a permanent solution, including cleaning up any contaminated surfaces so that the material will not discharge in subsequent storm events. In Part IV, the term "immediately" means that the day you find a condition requiring corrective action, you must take all reasonable steps to minimize or prevent the discharge of pollutants until you can implement a permanent solution. However, if you identify a problem too late in the work day to initiate corrective action, you must perform the corrective action the following work day morning. The term "all reasonable steps" means you must respond to the conditions triggering the corrective action, such as cleaning up any exposed materials that may be discharged in a storm event (e.g., through sweeping, vacuuming) or making arrangements (i.e., scheduling) for a new Stormwater Control to be installed.

b. Subsequent Actions.

If additional actions are necessary beyond those implemented pursuant to Part IV.B, you must complete the corrective actions (e.g., install a new or modifi ied control and make it operational, complete the repair) before the next storm event if possible and within 14 calendar days from the time of discovery that the condition in IV.A.1 is not met. . If it is infeasible to complete the corrective action within 14 calendar days, you must document why it is infeasible to complete the corrective action within the 14-day timeframe. You must also identify your schedule for completing the work, which must be done as soon as practicable after the 14-day timeframe but no longer than 45 days after discovery. If the completion of corrective action will exceed the 45-day timeframe, you may take the minimum additional time necessary to complete the corrective action, provided that you notify the Department Compliance program of your intention to exceed 45 days, your rationale for an extension, and a completion date, which you must also include in your corrective action documentation (see Part IV.C). Where your corrective actions result in changes to any of the controls or procedures documented in your SWPPP, you must modify your SWPPP accordingly within 14 calendar days of completing corrective action work. These time intervals are not grace periods, but are schedules considered reasonable for documenting your findings and for making repairs and improvements. They are included in this permit to ensure that the conditions prompting the need for these repairs and improvements are not allowed to persist indefinitely.

3. Effect of Corrective Action

If the event triggering the review is a permit violation (e.g., non-compliance with an effluent limit), correcting it does not remove the original violation. Additionally, failing to take corrective action in accordance with this section is an additional permit violation. The Department may consider the appropriateness and promptness of corrective action in determining enforcement responses to permit violations.

4. Substantially Identical Outfalls
If the event triggering corrective action is linked to an outfall that represents other substantially identical outfalls, your review must assess the need for corrective action for each outfall represented by the outfall that triggered the review. Any necessary changes to control measures that affect these other outfalls must also be made before the next storm event if possible, or as soon as practicable following that storm event. Any corrective actions must be conducted within the timeframes set forth in Part IV.A.2.

B. Additional Implementation Measures (AIM)

If any of the following events in Parts V.B.1, V.B.2, V.B.3, or V.B.4 occur, you must follow the response procedures described in those parts, called "additional implementation measures" or "AIM." There are multiple AIM levels: AIM Benchmark Action Level 1 through Benchmark Action Level 4. You are required to respond to different AIM levels which prescribe increasingly robust responses depending on the nature, duration and magnitude of the benchmark exceedance. In the context of the following parts "year you are subject to benchmarks" means 4 quarters of monitoring. If you were covered under the 12-SW, and had not yet achieved the benchmark, then you consider the last year of benchmark monitoring of coverage under the 12-SW as a year you were subject to benchmarks. See Part V.B.5 for AIM exceptions.

1. Benchmark Action Level 1 (AIM Level 1):

a. AIM Level 1 Triggering Events. If during the first year you are subject to benchmarks (Year 1) any of the following events occur, you are in AIM Level 1. You must follow AIM the AIM Level 1 responses (Part IV.B.1.b) and deadlines (Part IV.B.1.c).

i. One Annual Average Over the Benchmark Threshold. If one annual average for a parameter is over the benchmark threshold Year 1, you are in AIM Level 1. An annual average exceed ance can occur from the average of four quarterly samples for a parameter, or from less than four samples with results such that an exceedance is mathematically certain (i.e., if the sum of quarterly sample results to date to date is already more than 4 times the benchmark threshold) .

ii. One Single Sampling Event Over 4 Times the Benchmark Threshold. If one single sampling event Year 1 for a parameter is over 4 times the benchmark threshold, you are in AIM Level 1.

b. AIM Level 1 Responses. Except as provided in Part IV.B.5 (AIM Exceptions) if any of the triggering events in Part IV.B.1 occur, you must:

i. Review Stormwater Control Measures. Immediately review the selection, design, installation, and implementation of your control measures to determine if modifications are necessary to meet the benchmark threshold for the applicable parameter (Examples include: review sources of pollution, spill and leak procedures, and/or non-stormwater discharges; conducting a single comprehensive clean-up, making a change in subcontractor, implementing a new control measure, and/or increasing inspections.) and

ii. Implement Additional Measures. After reviewing your control measures, you must implement additional implementation measures to ensure the effectiveness of your control measures to bring your exceedances below the parameter's benchmark threshold; or if you determine nothing further needs to be done with your control measures, you must document per Part III.C and include in your annual report why you expect your existing control measures to bring your exceedances below the parameter's benchmark threshold for the next 12-month period; and

iii. Continue Quarterly Benchmark Monitoring. After compliance with (i) and (ii) in this Part, you must continue quarterly benchmark monitoring into the next year. You must also attach **your updated Comprehensive Annual Report to your next DMR.**

c. AIM Level 1 Deadlines: If any modifications related to control measures are necessary, you must implement those actions or modifications within 14 days, unless doing so within 14 days is infeasible. If doing so within 14 days is infeasible, you must document per Part IV.C why it is infeasible and implement such modifications within 45 days.
Exception: You do not have to implement any modifications if you determine and document in your SWPPP that the exceedance is solely attributable to natural background sources or,

with the Department agreement, run-on sources, consistent with Part IV.B.5 (AIM Exceptions).

2. **Benchmark Action Level 2: (AIM Level 2):**
   a. AIM Level 2 Triggering Events. If during the second year you are subject to benchmarks (Year 2) any of the following events occur, you are in AIM Level 2. You must follow AIM the AIM Level 2 responses (Part IV.B.2.b) and deadlines (Part IV.B.1.c).
      i. The second Annual Average Over the Benchmark Threshold. If your annual average for a parameter is over the benchmark threshold during Year 2, you are in AIM Level 2. An annual average exceedance can occur from the average of four quarterly samples for a parameter, or from less than four samples with results such that an exceedance is mathematically certain (i.e., the sum of quarterly sample results to date is already more than four times the benchmark threshold).
      ii. One Single Sampling Event Over 4 Times the Benchmark Threshold. If one single sampling event Year 2 for a parameter is over 4 times the benchmark threshold, you are in AIM Level 2.
   b. AIM Level 2 Responses. Except as provided in Part IV.B.5 (AIM Exceptions) if any of the triggering events in Part IV.B.1 occur, you must
      i. Repeat your review and then implement additional stormwater control measures as described in AIM Level 1 (Part IV.B.1.b): or
      ii. Implement Sector-Specific Stormwater Control Measures. Implement all feasible SCMs from the relevant sector-specific Stormwater Control Measure Checklist(s) that applies to your facility in the EPA MSGP Appendix Q. You must notate in the checklist which SCMs you implement and keep the checklist with your SWPPP. (Note: You do not have to implement an SCM where it would be counterproductive to the implementation of another control measure, or not result in any reduction in the discharge of the pollutant of concern.)
      iii. Continue Quarterly Benchmark Monitoring. After compliance with (i) or (ii) in this Part, you must continue quarterly benchmark monitoring into the next year. You must also attach **your updated Comprehensive Annual Report to your next DMR.**
   c. AIM Level 2 Deadlines: You must implement all feasible SCMs within 14 days and document per Part IV.D how the measures will achieve benchmark thresholds and if you considered the EPA MSGP Appendix Q, why, you did not implement any sector-specific measures from the checklist. If it is feasible for you to implement a measure, but not within 14 days, you may take up to 45 days to implement such a measure. You must document per Part IV.D why it was infeasible to implement such a measure in 14 days. The Department may also grant you an extension beyond 45 days, based on an appropriate demonstration by you, the operator.(violation)
      Exception: You do not have to implement any of the feasible control measures if you determine and document in your SWPPP that the exceedance is solely attributable to natural background sources or, with the Department agreement, run-on sources, consistent with Part IV.B.5 (AIM Exceptions).

3. **Benchmark Action Level 3: (AIM Level 3)**
   a. AIM Level 3 Triggering Events. If during the third year you are subject to benchmarks (Year 3) any of the following events occur, you are in AIM Level 3. You must follow AIM the AIM Level 3 responses (Part IV.B.3.b) and deadlines (Part IV.B.3.c).
      i. The third Annual Average Over the Benchmark Threshold. If your third annual average for a parameter is over the benchmark threshold during Year 3, you are in AIM Level 3. An annual average exceedance can occur from the average of four quarterly samples for a parameter, or from less than four samples with results such that an exceedance is mathematically certain (i.e., the sum of quarterly sample results to date is already more than four times the benchmark threshold).
      ii. One Single Sampling Event Over 4 Times the Benchmark Threshold. If one single sampling event during your second year of coverage for a parameter is over 4 times the benchmark threshold, you are in AIM Level 3.
   b. AIM Level 3 Responses. Except as provided in Part IV.B.5 (AIM Exceptions), if any of the triggering events in IV.B.3.a occur, you must:

i. Install Permanent Controls. Install structural source controls (e.g. permanent controls such as permanent cover, berms, and secondary containment), and/or treatment controls (e.g., sand filters, hydrodynamic separators, oil-water separators, retention ponds, and infiltration structures), except as provided in Part IV.B.5 (AIM Exceptions). The treatment technologies or treatment train you install should be appropriate for the pollutants that triggered AIM Tier 3 and should be more rigorous than the pollution prevention-type measures employed under AIM Level 2 in Part IV.B.2. You must select controls with pollutant removal efficiencies that are sufficient to bring your exceedances below the benchmark threshold. You must have a professional engineer, stormwater professional or geologist assist with the installation of such controls for the discharge point in question and for substantially similar discharge points, unless you individually monitor those substantially similar discharge points and demonstrate that AIM Level 3 requirements are not triggered at those discharge points; and/or

ii. Alternative Option: Infiltrate. As an alternative or adjunct to structural source controls and/or treatment controls, you may increase impervious surface restoration for your industrial stormwater, if such an approach is appropriate and feasible for your site-specific conditions.Successful compliance with the provisions in this part may allow the Department to waive or lessen benchmark monitoring requirements and may generate marketable credits (refer to Part III.A); and

iii. Continue Quarterly Benchmark Monitoring. After compliance with (i) and/or (ii) (if the Department approves) in this Part, you must continue quarterly benchmark monitoring into the next year. You must also attach your updated Comprehensive Annual Report to your next DMR.

c. AIM Level 3 Deadlines. You must install the appropriate structural source and/or treatment control measures within 30 days. If it is not feasible within 30 days, you may take up to 90 days to install such measures, documenting in your SWPPP why it is infeasible to install the measure within 30 days. The Department may also grant you an extension beyond 90 days, based on an appropriate demonstration by you, the operator. Exception: You do not have to install structural source controls or treatment controls if you determine and document in your SWPPP that the exceedance is solely attributable to natural background sources or, with the Department agreement, run-on sources, consistent with Part IV.B.5 (AIM Exceptions).

4. Benchmark Action Level 4+: (AIM Level 4)

a. AIM Level 4 Triggering Events. If during the fourth or subsequent year you are subject to benchmarks (Year 4) any of the following events occur, you are in AIM Level 4. You must follow AIM the AIM Level 4 responses (Part IV.B.4.b) and deadlines (Part IV.B.4.c).

i. The fourth Annual Average Over the Benchmark Threshold. If your fourth or subsequent years annual average for a parameter is over the benchmark threshold during Year 4, you are in AIM Level 4. An annual average exceedance can occur from the average of four quarterly samples for a parameter, or from less than four samples with results such that an exceedance is mathematically certain (i.e., the sum of quarterly sample results to date is already more than four times the benchmark threshold).

ii. One Single Sampling Event Over 4 Times the Benchmark Threshold. If one single sampling event during your second year of coverage for a parameter is over 4 times the benchmark threshold, you are in AIM Level 4.

b. AIM Level 4 Responses. Except as provided in Part IV.B.5 (AIM Exceptions), if any of the triggering events in IV.B.4.a occur, you must consult a professional engineer, stormwater professional or geologist to prepare an action plan. You may take up to 90 days to prepare the action plan for the Department, to include milestone dates, and which may include i or ii below:

i. installing structural source controls and/or treatment controls or

ii. an adequate demonstration to the Department that your discharge does not result in any exceedance of water quality standards and the Department approves such demonstration within 90 days of receipt (the Department may take up to 180 days upon notice to you before the 90th day that the Department needs such extra time). The demonstration to the Department, which will be made publicly available, must include the following minimum elements in order to be considered for approval by the Department:

- the water quality standards applicable to the receiving water;
- the flow rate of the stormwater discharge;
- the instream flow rates of the receiving water immediately upstream and downstream of the discharge point;
- the ambient concentration of the parameters) of concern in the receiving water immediately upstream and downstream of the discharge point demonstrated by full-storm composite sampling;
- the concentration of the parameter(s) of concern in the stormwater discharge demonstrated by full-storm, flow-weighted composite sampling;
- any relevant dilution factors applicable to the discharge; and
- the hardness of the receiving water.

If the Department disapproves such demonstration within 90 days (or 180 days if the Department notifies you that it needs more than 90 days), you must install structural source controls and/or treatment controls within 30 days of such disapproval (or 90 days if you document in your SWPPP why it is infeasible within 30 days; the Department may also grant an extension beyond 90 days based on an appropriate demonstration by you, the operator).

iii. If you continue to exceed the benchmark threshold for the same parameter even after installation of structural source controls or treatment controls, the Department may revoke coverage under this permit, unless you are under a consent order or you have obtained an individual permit. to consider site specific water quality based limits.

iv. Continue Quarterly Benchmark Monitoring. After compliance with (i), (ii), or (iii) in this Part, you must continue quarterly benchmark monitoring into the next year. You must also attach your updated Comprehensive Annual Report to your next DMR.

c. AIM Level 4 Deadlines. You must install the appropriate structural source and/or treatment control measures within 30 days. If it is not feasible within 30 days, you may take up to 90 days to install such measures, documenting in your SWPPP why it is infeasible to install the measure within 30 days. The Department may also grant you an extension beyond 90 days, based on an appropriate demonstration by you, the operator. Exception: You do not have to install structural source controls or treatment controls if you determine and document in your SWPPP that the exceedance is solely attributable to natural background sources or, with the Department agreement, run-on sources, consistent with Part IV.B.5 (AIM Exceptions).

5. AIM Exceptions.

At any point or Benchmark Action Level of AIM, the below exceptions from AIM requirements and additional benchmark monitoring below may apply. You must still review your stormwater control measures, SWPPP, and other on-site activities to determine if actions or modifications are necessary or appropriate.

a. Natural Background Pollutant Levels:

You are not required to perform AIM or additional benchmark monitoring for any parameters for which you can demonstrate that the benchmark exceedance is attributable solely to the presence of that pollutant in the natural background, you are not required to perform corrective action or additional benchmark monitoring provided that all the following conditions are met and you submit your analysis and documentation to the Department Permitting Program:

i. The four-quarter average concentration of your benchmark monitoring minus the concentration of that pollutant in the natural background is less than or equal to the benchmark threshold; and ;

ii. You document and maintain with the SWPPP as required in Part III.C, your supporting rationale for concluding that benchmark exceedances are in fact attributable solely to natural background pollutant levels. You must include in your supporting rationale any data previously collected by you or others (including literature studies) that describe the levels of natural background pollutants in your stormwater discharge; and

iii. You notify the Departments Permitting Program and get concurrence, and include the concurrence on your final quarterly benchmark monitoring report that the benchmark exceedances are attributable solely to natural background pollutant levels.

Natural background pollutants are those substances that are naturally occurring in soils or groundwater. Natural background pollutants do not include legacy pollutants from earlier activity on your site, or pollutants in run-on from neighboring sources which are not naturally occurring, such as other industrial facilities or roadways.

b. Run-On:

You are not required to perform AIM or additional benchmark monitoring for any parameters for which you can demonstrate and obtain the Department agreement that run-on from a neighboring source (e.g., a source external to your facility) is the cause of the exceedance, provided that all the following conditions are met and you submit your analysis and documentation to the Department for concurrence:

i. After reviewing and revising your SWPPP, as appropriate, you should notify the other facility or entity contributing run-on to your discharges and request that they abate their pollutant contribution.

ii. If the other facility or entity fails to take action to address their discharges or sources of pollutants, you should contact the Department's Compliance Program.

C. Corrective Action and AIM Documentation

1. Documentation within 24 Hours.

You must document the existence of any of the conditions listed in Parts IV.A.1, IV.B.1.a, IV.B.2.a, IV.B.3.a and/or IV.B.4.a w ithin 24 hours of becoming aware of such condition . You are not required to submit this documention to the Department, unless specifically required or requested to do so. However, you must summarize your findings in the annual report per Part V.A.2. Include the following information in your documentation:

2. Description of the condition or event triggering the need for corrective action review and/or AIM response.

For any spills or leaks, include the following information: a description of the incident including material, date/time, amount, location, and reason for spill, and any leaks, spills or other releases that resulted in discharges of pollutants to Waters of the State, through stormwater or otherwise;

a. Date the condition/triggering event was identified;

b. Description of immediate actions taken pursuant to Part IV.A.2.a to minimize or prevent the discharge of pollutants. For any spills or leaks, include response actions, the date/time clean-up completed, notifications made, and staff involved. Also include any measures taken to prevent the reoccurrence of such releases (see Part III.B.1.b.iv); and

c. A statement, signed and certified in accordance with Part II.C.

3. Documentation within 14 Days.

You must also document the corrective actions and/or AIM responses you took or will take as a result of the conditions listed in IV.A.1, IV.B.1.a, IV.B.2.a, IV.B.3.a and/or IV.B.4.a within 14 days from the time of discovery of any of those conditions/triggering events. Provide the dates when you initiated and completed (or expect to complete) each corrective action and/or AIM response. If infeasible to complete the necessary corrective actions and/or AIM responses within the specified timeframe, per Parts IV.A.2, IV.B.1.c, IV.B.2.c, IV.B.3.c and/or IV.B.4.c, you must document your rationale and schedule for installing the controls and making them operational as soon as practicable after the specified timeframe. If you notified the Department regarding an allowed extension of the specified timeframe, you must document your rationale for an extension. Include any additional information and/or rationale that is required and/or applicable to the specified corrective action and/or AIM response in Part IV. You are not required to submit this documentation to the Department, unless specifically required or

requested to do so. However, you must summarize your corrective actions and/or AIM responses in the annual report required in Part V.A.2 .

PART V. INSPECTIONS, MONITORING, AND REPORTING

A. Site Inspections and Evaluations

You must conduct the following inspections or evaluations at your facility in accordance with the monitoring procedures outlined in Part V.C. You must keep a copy of the documentation from all inspections and evaluations onsite with your SWPPP per Part III.C.8.g.

1. Routine Facility Inspection
   At least once per quarter, you must conduct a site assessment that will review the effectiveness of the SWPPP. At least once each calendar year, the routine facility inspection must be conducted during a period when a stormwater discharge is happening. The facility inspections must be documented with a checklist or other summary signed in accordance with Part II.C.2 of this permit, by qualified personnel, with at least one member of your stormwater pollution prevention team participating. The checklist must include a certification that the site is in compliance with the SWPPP and this permit, or a record of the deficiencies and necessary follow up actions. Refer to Part IV.C Corrective Action Deadlines and Part IV.A.2 . Corrective Action Report for appropriate time frames.

2. Comprehensive Site Compliance Evaluation
   You must conduct comprehensive site compliance evaluations once a year. The evaluations must be performed by qualified personnel who possess the knowledge and skills to assess conditions and activities that could impact stormwater quality at the facility and who can evaluate the effectiveness of all existing BMPs. The personnel conducting the evaluations may be either facility employees (such as pollution prevention team members) or contractors you hire. If a scheduled compliance evaluation overlaps with a routine facility inspection, the annual compliance evaluation may be used as one of the four routine facility inspections.
   a. Evaluations must include all areas where industrial materials or activities are exposed to stormwater, at a minimum:
      i.) Industrial materials, residue or trash that may have or could come into contact with stormwater;
      ii.) Leaks or spills from industrial equipment, drums, barrels, tanks or other containers that have occurred within the past three years;
      iii.) Offsite tracking of industrial or waste materials or sediment where vehicles enter or exit the site;
      iv.) Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas;
      v.) Evidence of, or the potential for, pollutants entering the drainage system;
      vi.) Evidence of pollutants discharging to surface waters at all facility outfalls;
      vii.) The condition of and around any outfall, including flow dissipation measures to prevent scouring;
      viii.) Training performed, inspections completed, maintenance performed, quarterly visual examinations, and effective operation of BMPs (including those required for Chesapeake Bay Restoration); and
      ix.) Visual and analytical monitoring results from the past year.
   b. A report must be written summarizing the scope of the evaluation, name(s) of personnel performing the evaluation, the date of the evaluation, and all observations relating to the implementation of the SWPPP. Based on the results of the evaluation,

the SWPPP must be modified as necessary. Refer to Part IV for Corrective Action and AIM Documentation .

3. Quarterly Visual Inspections
You are required to begin visual inspections in the first full quarter after you have been notified that you are covered by this permit. For example, if you obtain permit coverage in June, then your first monitoring quarter is July 1 - September 30 of that year. Once each quarter, you must collect a stormwater sample from each outfall (except in adverse weather conditions, substantially identical outfalls, or inactive and unstaffed sites as noted below) and assess the sample visually. Samples may be taken during any precipitation event (except as noted in Areas Subject to Snow below) where there is a measurable discharge and must be sampled within the first 30 minutes of the storm event. In the case of snowmelt, samples must be taken during a period with a measurable discharge from your site. These samples are not required to be collected consistent with 40 CFR 136 procedures but should be collected in such a manner that the samples are representative of the stormwater discharge.
   a. The Quarterly Visual Monitoring Form found in Appendix B of this permit must be completed for each sample.
   b. Adverse Weather Conditions are those that are dangerous or create inaccessibility for personnel, such as local flooding, high winds, or electrical storms, or situations that otherwise make sampling impractical, such as drought or extended frozen conditions. When adverse weather conditions prevent the collection of samples during the quarter, a substitute sample must be taken during the next qualifying storm event. Documentation of the rationale for no visual assessment for the quarter must be included in SWPPP records.
   c. *Areas Subject to Snow:* In areas subject to snow, at least one quarterly visual assessment must capture snowmelt discharge. The assessment should identify the date when the sample was taken.
   d. *Substantially identical outfalls:* If your facility has two or more outfalls that you believe discharge substantially identical effluents, as documented in Part III.C.5.b, you may conduct quarterly visual assessments of the discharge at just one of the outfalls and report that the results also apply to the substantially identical outfall(s) provided that you perform visual assessments on a rotating basis of each substantially identical outfall throughout the period of your coverage under this permit. If stormwater contamination is identified through visual assessment performed at a substantially identical outfall, you must assess and modify your control measures as appropriate for each outfall represented by the monitored outfall.

4. Inactive and Unstaffed Sites Exceptions to Routine Facility Inspections.
The requirement to conduct routine facility inspections and visual monitoring on a quarterly basis does not apply at a facility that is inactive and unstaffed, as long as there are no industrial materials or activities exposed to stormwater. Such a facility is only required to conduct an annual comprehensive site inspection in accordance with the requirements of Part V.A.2. To invoke this exception, you must maintain a statement in your SWPPP pursuant to Part III.C.5.b.v indicating that the site is inactive and unstaffed, and that there are no industrial materials or activities exposed to precipitation, in accordance with the substantive requirements in 40 CFR 122.26(g)(4)(iii). The statement must be signed and certified in accordance with Part II.C. If circumstances change and industrial materials or activities become exposed to stormwater or your facility becomes active and/or staffed, this exception no longer applies and you must immediately resume quarterly facility inspections. If you are not qualified for this exception at the time you are authorized under this permit, but during the permit term you become qualified because

your facility is inactive and unstaffed, and there are no industrial materials or activities that are exposed to stormwater, then you must include the same signed and certified statement as above and retain it with your records pursuant to Part III.C.5.b.v.

B. Industry Specific Benchmarks and Impaired Waters Monitoring Requirements

This permit stipulates pollutant benchmark concentrations that may be applicable to your discharge (Part V.B.1). Samples and measurements taken for the purpose of monitoring must be representative of the volume and nature of the monitored activity. Impaired water monitoring requirements below (Part V.B.3) are based on the impairment status of the receiving waters (refer to Part III.B.3 .b). Benchmark or impaired water monitoring, if required, must be conducted according to the monitoring below (Part V.C) or as specified for the impaired water by the Department (Part V.B.3).

1. Applicability of Benchmark Monitoring

You must monitor for any benchmark parameters specified for the industrial sector(s), both primary industrial activity and any co-located industrial activities, applicable to your discharge. Your industry-specific benchmark concentrations are listed in the sector-specific sections of Appendix D. The benchmark concentrations are not effluent limitations; a benchmark exceedance, therefore, is not a permit violation. Benchmark monitoring data are primarily for your use to determine the overall effectiveness of your control measures and to assist you in knowing when Additional Implementation Measures (AIM) may be necessary to comply with the effluent limitations in Part III.B. Failure to conduct any required measures would be a permit violation.

If your facility is in one of the industrial sectors subject to benchmark concentrations that are hardness-dependent, you are required to submit to the Department with your first benchmark discharge monitoring report (Part V.B.4) a hardness value, established consistent with the procedures in Appendix C, which is representative of your receiving water, if you plan to modify your benchmark based on receiving water hardness.

At your discretion, you may take more than four samples during separate discharge events to determine the average benchmark parameter value for facility discharges

2. Benchmark Monitoring Schedule

You must conduct benchmark monitoring quarterly for four (4) full quarters, starting the first full monitoring period (found in Part V.C.7) that occurs, six (6) months after registering under this permit. For example, if you obtain permit coverage in June, six months later is December, then your first monitoring period is Jan 1 – March 31. If the annual average for any parameter does not exceed the benchmark threshold, you have fulfilled your benchmark monitoring requirements for that parameter for the permit term and you can request to discontinue benchmark monitoring for that parameter by 1) entering all data for the parameters in NetDMR, 2) requesting the Department's Permit Program to verify your calculation and 3) receiving confirmation from the Department. For averaging purposes, use a value of zero for any individual sample parameter, analyzed using procedures consistent with Part V.C, which is determined to be less than the method detection limit. For sample values that fall between the method detection level and the quantitation limit (i.e., a confirmed detection but below the level that can be reliably quantified), use a value halfway between zero and the quantitation limit. You must comply with Part IV (Additional Implementation Measures) and continue quarterly benchmark monitoring for any parameter with data exceeding the benchmark threshold as specified in Part IV.

3. Impaired Waters Monitoring.

For the purposes of this permit, your facility is considered to discharge to an impaired water if the first Waters of This State to which you discharge is identified by the State or EPA pursuant to section 303(d) of the CWA as not meeting an applicable water quality standard, or has been removed from the 303(d) list either because the impairments are addressed by an EPA-approved or established TMDL or is covered by pollution control requirements that meet the requirements of 40 CFR 130.7(b)(1). For discharges that enter a separate storm sewer system prior to discharge, the first Waters of this State to which you discharge is the waterbody that receives the stormwater discharge from the separate storm sewer system.

a. Facilities Required to Monitor Discharges to Impaired Waters.

i.) Discharges to impaired waters without an EPA-approved or established TMDL: Beginning in the first full quarter following [date 90 days after permit effective date] or your date of discharge authorization, whichever date comes later, you must monitor once per year at each discharge point (except substantially identical discharge points) discharging stormwater to impaired waters without an EPA-approved or established TMDL, as follows:

Compare the list of industrial pollutants identified in Part III.C.3 and any sector specific benchmark monitoring pollutants to the list of pollutants for which the waterbody is impaired and for which a standard analytical method exists (see 40 CFR Part 136). You must monitor for pollutants that appear on both lists, including "indicator" or "surrogate" pollutants that clearly overlap those lists. Note: if the pollutant of concern for the impaired waterbody is suspended solids, turbidity, or sediment/sedimentation, you must monitor for Total Suspended Solids (TSS). If a pollutant of concern is expressed in the form of an indicator or surrogate pollutant, you must monitor for that indicator or surrogate pollutant. No monitoring is required when a waterbody's biological communities are impaired but no pollutant, including indicator or surrogate pollutants, is specified as causing the impairment, or when a waterbody's impairment is related to hydrologic modifications, impaired hydrology, or other non-pollutant. Operators should consult the Department for any available guidance regarding required monitoring parameters under this part.

If the monitored pollutant is not detected in your discharge for three consecutive years, or it is detected but you have determined that its presence is caused solely by natural background sources, you may discontinue monitoring for that pollutant. To support a determination that the pollutant's presence is caused solely by natural background sources, you must document and maintain with your SWPPP, as required by Part III.C.8:

- An explanation of why you believe that the presence of the pollutant of concern in your discharge is not related to the activities or materials at your facility; and
- Data and/or studies that tie the presence of the pollutant of concern in your discharge to natural background sources in the watershed.

Natural background pollutants include those that occur naturally as a result of native soils, and vegetation, wildlife, or ground water. Natural background pollutants do not include legacy pollutants from earlier activity on your site, or pollutants in run-on from neighboring sources that are not naturally occurring.

However, you may be eligible to discontinue annual monitoring for pollutants that occur solely from these sources and should consult the Department Compliance Program for related guidance.

If the monitored pollutant is not detected in your discharge for three consecutive years, or it is detected but you have determined that its presence is caused solely by natural background sources, you may discontinue monitoring for that pollutant only after submitting a request to the Departments Permiting Program with the appropriate justification and receiving verification that the request was granted.

ii.) Discharges to impaired waters with an EPA-approved or established TMDL: For stormwater discharges to waters for which there is an EPA-approved or established TMDL, you are not required to monitor for the pollutant(s) for which the TMDL was written unless the Department informs you, upon examination of the applicable TMDL and its wasteload allocation, that you are subject to such a requirement consistent with the assumptions and requirements of the applicable TMDL and its wasteload allocation. The Department's notice will include specifications on monitoring parameters and frequency. If there are questions, you may consult the Department's Compliance Program for guidance regarding required monitoring under this Part.

b. Impaired Water Exception for Inactive and Unstaffed Sites.
The requirement for impaired waters monitoring does not apply at a facility that is inactive and unstaffed, as long as there are no industrial materials or activities exposed to stormwater. To invoke this exception, you must do the following:

i.) Maintain a statement with your SWPPP stating that the site is inactive and unstaffed, and that there are no industrial materials or activities exposed to stormwater in accordance with the substantive requirements in 40 CFR 122.26(g) and sign and certify the statement in accordance with Part II.C.

ii.) If circumstances change and industrial materials or activities become exposed to stormwater or your facility becomes active and/or staffed, this exception no longer applies and you must immediately begin complying with the applicable impaired waters monitoring requirements under Part V.B as if you were in your first year of permit coverage. You must submit an NOI indicating this change in operations, now that your facility has materials or activities exposed to stormwater or has become active and/or staffed.

iii.) If you are not qualified for this exception at the time you are authorized under this permit, but during the permit term you become qualified because your facility is inactive and unstaffed, and there are no industrial materials or activities that are exposed to stormwater, then you must submit an NOI indicating this change in operations. You may discontinue impaired waters monitoring once you have submitted the NOI, and prepared and signed the certification statement described above concerning your facility's qualification for this special exception.

4. Submitting Benchmark or Impaired Water Discharge Monitoring Reports (DMRs)
You must summarize and submit benchmark or Impaired Water monitoring information electronically using NetDMR once you are granted access to this tool, unless you demonstrate a reasonable basis that precludes the use of NetDMR. Specific requirements regarding submittal of data and reports in hard copy form and for submittal

using NetDMR are described below:

a. NetDMR is a U.S. EPA tool allowing regulated Clean Water Act permittees to submit monitoring reports electronically via a secure Internet application. You must apply for access to NetDMR at [HYPERLINK "http://www.epa.gov/netdmr" \h] and register for a NetDMR Webinar, unless you are able to demonstrate a reasonable basis, such as technical or administrative infeasibility, that precludes the use of NetDMR for submitting DMRs ("opt-out request"). Before you can submit official DMRs using NetDMR you must attend a training Webinar and successfully set-up and submit test monitoring results electronically. You must complete all requirements to gain access to NetDMR within six (6) months of authorization under this permit, including applying for access within one (1) month of being registered.

b. Opt-out requests must be submitted in writing to the Department for written approval at least sixty (60) days prior to the date you would be required under this permit to begin using NetDMR. This demonstration shall be valid for twelve (12) months from the date of the Department approval and shall thereupon expire. At such time, DMRs and reports shall be submitted electronically to the Department unless the permittee submits a renewed opt-out request and such request is approved by the Department. All opt-out requests and subsequent hardcopy DMRs should be sent to the following addresses with "Attn: DMRs":

Maryland Department of the Environment
WMA – Compliance Program
1800 Washington Blvd., Suite 425
Baltimore, MD 21230

c. If you are required to monitoring and report for specific pollutants you must report the quarterly measurements no later than 28 days following the Monitoring Period (Part V. C.7), and according to the other Monitoring Procedures (Part V.C). Failure to sample and report is considered a permit violation.

5. Benchmark Exception for Inactive and Unstaffed Sites

The requirement for benchmark monitoring does not apply at a facility that is inactive and unstaffed, as long as there are no industrial materials or activities exposed to stormwater. To invoke this exception, you must do the following:

- Maintain a statement onsite with your SWPPP stating that the site is inactive and unstaffed, and that there are no industrial materials or activities exposed to stormwater in accordance with the substantive requirements in 40 CFR 122.26(g) and sign and certify the statement in accordance with Part II.C; and
- If circumstances change and industrial materials or activities become exposed to stormwater or your facility becomes active and/or staffed, this exception no longer applies and you must immediately begin complying with the applicable benchmark monitoring requirements under Part V.B as if you were in your first year of permit coverage. You must indicate in your first benchmark monitoring report that your facility has materials or activities exposed to stormwater or has become active and/or staffed.
- If you are not qualified for this exception at the time you are authorized under this permit, but during the permit term you become qualified because your facility is inactive and unstaffed, and there are no industrial materials or activities that are exposed to stormwater, then you must provide written notification to the Department's Compliance Program of this change in your next benchmark monitoring report. You may discontinue benchmark monitoring once you have notified the Department, and prepared and signed the certification statement

described above concerning your facility's qualification for this special exception.

6. Substantially identical outfalls
If your facility has two or more outfalls that you believe discharge substantially identical effluents, as documented in Part III.C.5.b, you may perform benchmark or impaired water monitoring of the discharge at just one of the outfalls and report that the results also apply to the substantially identical outfall(s) provided that you perform benchmark monitoring on a rotating basis of each substantially identical outfall throughout the period you are required to under this permit. If stormwater contamination is identified through benchmark monitoring performed at a substantially identical outfall, you must assess and modify your control measures as appropriate for each outfall represented by the monitored outfall.

7. Additional Monitoring Required by the Department.
The Department may notify you of additional discharge monitoring requirements that Department determines are necessary to meet the permit's effluent limitations. Any such notice will briefly state the reasons for the monitoring, locations, and parameters to be monitored, frequency and period of monitoring, sample types, and reporting requirements.

C. Monitoring Procedures

You must collect and analyze stormwater samples and document monitoring activities for visual and benchmark monitoring consistently with the procedures described in this section and the industry specific benchmark monitoring requirements.

1. Monitored Outfalls
You must conduct monitoring as required by this permit at each outfall authorized by this permit, except when an outfall is exempt from monitoring as a substantially identical outfall. If your facility has two or more outfalls that you believe discharge substantially identical effluents, based on the similarities of the general industrial activities and control measures, exposed materials that may significantly contribute pollutants to stormwater, and runoff coefficients of their drainage areas, you may monitor the effluent of just one of the outfalls and report that the results also apply to the substantially identical outfall(s). As required in Part III.C.5, your SWPPP must identify each outfall authorized by this permit and describe the rationale for any substantially identical outfall determinations.

2. Commingled Discharges
If discharges authorized by this permit commingle with discharges not authorized under this permit, any required sampling of the authorized discharges must be performed at a point before they mix with other waste streams, to the extent practicable. The following are some examples of mixed water source situations that should not be sampled.
   a. A common ditch that carries stormwater from properties upstream. In this case, the stormwater from the permitted facility is mixed with other water. You should find a location or locations where your facility's stormwater alone can be sampled.
   b. A partially submerged storm sewer pipe where it discharges into the receiving water body. In this case, this final discharge point should not be used as a sampling point because the stormwater flow is mixed with the receiving water.
   c. A manhole that carries stormwater not only from the permitted facility but from other stormwater sources as well. If taking a grab sample from a manhole, you should make sure that the flow in that pipe is entirely from your facility.

3. Measurable Storm Events
All required monitoring must be performed on a storm event that results in an actual discharge from your site ("measurable storm event") that follows the preceding measurable storm event by at least 72 hours (3 days). The 72-hour (3-day) storm interval does not apply if you are able to document that less than a 72-hour (3-day) interval is representative for local storm events during the sampling period. In the case of snowmelt, the monitoring must be performed at a time when a measurable discharge occurs at your site.

For each monitoring event, except snowmelt monitoring, you must identify the date and duration (in hours) of the rainfall event, rainfall total (in inches) for that rainfall event, and time (in days) since the previous measurable storm event. For snowmelt monitoring, you must identify the date of the sampling event.

4. Sample Type
You must take a minimum of one grab sample from a discharge resulting from a measurable storm event as described above. Samples must be collected within the first 30 minutes of a measurable storm event. However, the Department does not advocate impractical or potentially unsafe sampling methods during periods of adverse weather conditions. Therefore, if it is not possible to collect the sample within the first 30 minutes of a measurable storm event, the sample must be collected as soon as practicable after the first 30 minutes and documentation must be kept with the SWPPP explaining why it was not possible to take samples within the first 30 minutes. In the case of snowmelt, samples must be taken during a period with a measurable discharge.

For benchmark monitoring, you may use a composite sampling method instead of taking grab samples as described above. This composite method may be either flow-weighted or time weighted. Flow-Weighted composite sample means a composite sample consisting of a mixture of aliquots collected at a constant time interval, where the volume of each aliquot is proportional to the flow rate of the discharge. Composite samples must be initiated during the first 30 minutes of the same storm event. If it is not possible to initiate composite sampling within the first 30 minutes of a measurable storm event, you must initiate composite sampling as soon as possible after the first 30 minutes and keep documentation with the SWPPP explaining why it was not possible to initiate composite sampling within the first 30 minutes. Composite sampling may not be used to measure parameters that have a short holding time for processing or that degrade or transform quickly such as pH, temperature, and oil and grease (O&G).

5. Adverse Weather Conditions
When adverse weather conditions, as described in Part V.A.3.b, prevent the collection of samples according to the relevant monitoring schedule, you must take a substitute sample during the next qualifying storm event. Adverse weather does not exempt you from having to file a benchmark monitoring report in accordance with your sampling schedule. You must keep a record with your SWPPP of any failure to monitor as specified, indicating the basis for not sampling during the usual reporting period.

6. Representative Sampling
You must take all required samples and measurements at times to be representative of the quantity and quality of the discharges during the specified monitoring periods. At a minimum, samples must be taken once every quarter unless otherwise specified.

The sampling and analytical methods used must conform to procedures for the analysis of pollutants as identified in [HYPERLINK "http://ecfr.gpoaccess.gov/cgi/t/text/text-

idx?c=ecfr&sid=39597acc2ff9f09223aa00bbf37dbc34&rgn=div5&view=text&node=40:22.0.1.1.1&idno=40" \h] - "Guidelines Establishing Test Procedures for the Analysis of Pollutants" except for visual monitoring which is not subject to 40 CFR 136, or unless otherwise specified. You must select test procedures with quantitation limits at or below benchmark values for all benchmark parameters for which you are required to sample and for impaired waters based on guidance from the Department.

7. Monitoring Periods
   Visual (Part V.A.3) and benchmark (Part V.B.2) monitoring are required on a quarterly basis, following these 3-month intervals:
   a. January 1 – March 31;
   b. April 1 – June 30;
   c. July 1 – September 30; and
   d. October 1 – December 31.

8. Data Recording Requirements
   If you are required to perform monitoring, you must record the following information for each sample:
   a. The exact place, date, and time of sampling or measurement;
   b. The person(s) who performed the sampling or measurement;
   c. The dates and times the analyses were performed;
   d. The person(s) who performed the analyses;
   e. The analytical techniques or methods used; and
   f. The results of all required analyses.

D. Hazardous Substances or Oil in Stormwater Discharge(s) Reporting

1. This permit does not authorize the discharge of hazardous substances or oil resulting from an onsite spill.

2. You must prevent the discharge of hazardous substances or oil in the stormwater discharge(s) from your facility in accordance with your SWPPP. This permit does not relieve you of the reporting requirements of 40 CFR part 117 and 40 CFR part 302. If a spill or discharge of hazardous substances or oil occurs you must do the following:
   a. Notify the Department by calling its Emergency Response Division at (866) 633-4686 and notify the National Response Center (NRC) at (800) 424-8802 or, in the Washington, DC metropolitan area, at (202) 426-2675 in accordance with the requirements of COMAR 26.10.01.03, 40 CFR 117 and 40 CFR 302 respectively as soon as he or she has knowledge of the discharge;
   b. Submit to the Department a written description within 10 working days of knowledge of the incident including: the type and estimate of the amount of material released, the date it occurred, the circumstances leading to it, and steps to be taken in accordance with Part V.C.1.c, below, and any other information as required by COMAR 26.10.01.03; and
   c. Modify the SWPPP within 14 calendar days of knowledge of the incident to (1) provide a description of the release, the circumstances leading to it, and the date it occurred and (2) identify measures to prevent the reoccurrence of respond to such releases and modify the plan where appropriate.

E. Records Retention

You must retain all records and information resulting from the monitoring activities required by this permit, including all records of analyses performed, calibration and maintenance of

instrumentation, and original recordings from continuous monitoring instrumentation, for a minimum of five (5) years. This period shall be extended automatically during the course of litigation, or when requested by the Department.

PART VI. STANDARD PERMIT CONDITIONS

A. Compliance with this General Permit and Water Pollution Abatement Statutes

You must comply at all times with the terms and conditions of this permit, the provisions of the Environmental Article, Title 7, Subtitle 2 and Title 9, Subtitles 2 and 3 of the Annotated Code of Maryland, and the Clean Water Act, 33 U.S.C. § 1251 et seq. Any noncompliance with any of the requirements of this permit constitutes a violation of the Clean Water Act.

As detailed in Part IV (Corrective Actions) of this permit, failure to take any required corrective actions constitute an independent, additional violation of this permit and the Clean Water Act. As such, any actions and time periods specified for remedying noncompliance do not absolve parties of the initial underlying noncompliance. However, where corrective action is triggered by an event that does not itself constitute permit noncompliance, such as an exceedance of an applicable benchmark, there is no permit violation provided you take the required corrective action within the relevant deadlines established in Part IV.C.

B. Civil and Criminal Liability

Nothing in this permit shall be construed to preclude the institution of any legal action nor relieve you from any civil or criminal responsibilities, liabilities, and/or penalties for noncompliance with Title 9 of the Environment Article, Annotated Code of Maryland or any federal, local or other state law or regulation.

C. Action on Violations

The issuance or reissuance of this permit does not constitute a decision by the State not to proceed in an administrative, civil, or criminal action for any violations of State law or regulations occurring before the issuance or re-issuance of this permit, nor a waiver of the State's right to do so.

D. Civil Penalties for Violations of Permit Conditions

In addition to civil penalties for violations of State water pollution control laws set forth in Section 9-342 of the Environment Article, Annotated Code of Maryland, the Clean Water Act provides that any person who violates Section 301, 302, 306, 307, 308, 318, or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under Section 402 of the Act or in a permit issued under Section 404 of the Act, is subject to a civil penalty not to exceed $25,000 per day for each violation. Statutory penalties of the CWA are subject to the Civil Monetary Penalty Inflation Adjustment Rule published in the federal register 2009.

E. Criminal Penalties for Violations of Permit Conditions

In addition to criminal penalties for violations of State water pollution control laws set forth in Section 9-343 of the Environment Article, Annotated Code of Maryland, the Clean Water Act provides that:

1. Any person who negligently violates Section 301, 302, 306, 307, 308, 318, or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under Section 402 of the Act, or in a permit issued under Section 404 of the Act, is subject to a fine of not less than $2,500 nor more than $25,000 per day of violation, or by imprisonment for not more than one (1) year, or by both.

2. Any person who knowingly violates Section 301, 302, 306, 307, 308, 318, or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under Section 402 of the Act, or in a permit issued under Section 404 of the Act, is subject to a fine of not less than $5,000 nor more than $50,000 per day of violation, or by imprisonment for not more than three (3) years, or by both.

3. Any person who knowingly violates Section 301, 302, 306, 307, 308, 318, or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under Section 402 of the Act, or in a permit issued under Section 404 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, is subject to a fine of not more than $250,000 or imprisonment of not more than fifteen (15) years, or both. A person that is a corporation, must, upon conviction, be subject to a penalty of not more than $1,000,000.

4. Any person who knowingly makes any false material statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained under the Act or who knowingly falsifies, tampers with or renders inaccurate any monitoring device or method required to be maintained under the Act, is subject to a fine of not more than $10,000 or by imprisonment for not more than two (2) years, or by both.

F. Penalties for Falsification and Tampering

Per the Environment Article, §9-343, Annotated Code of Maryland, any person who knowingly makes any false material statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, or who knowingly falsifies, tampers with or renders inaccurate any monitoring device or method required to be maintained under this permit must, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both. Per the federal Clean Water Act, any person who knowingly falsifies, tampers with, or renders inaccurate any monitoring device or method required to be maintained under the Act, or who knowingly makes any false statement, representation, or certification in any records or other documents submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance must, upon conviction, be punished by a fine of not more than $10,000, or by imprisonment for not more than two years, or by both.

G. Right of Entry

You must permit the Secretary of the Department, the Regional Administrator for the EPA, or their authorized representatives, upon the presentation of credentials, to:

1. enter upon your premises where a discharges' source is located or where any records are required to be kept under the terms and conditions of this permit;

2. access and copy, at reasonable times, any records required to be kept under the terms and conditions of this permit;

3. inspect, at reasonable times, any monitoring equipment or monitoring method required in this permit;

4. inspect, at reasonable times, any collection, treatment, pollution management, or

discharge facilities required under this permit;

5. sample, at reasonable times, any discharge of pollutants; and

6. take photographs (which may require direction for reasons of national security).

H. Property Rights/Compliance with Other Requirements

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

I. Duty to Provide Information

You must provide within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit to the Department. You must also provide copies of records required to be kept by this permit to the Department, upon request.

J. Submitting Additional or Corrected Information

When you become aware that you failed to submit any relevant facts or submitted incorrect information in the NOI or in any other report to the Department, you must submit the facts or information to the Department within 30 days.

K. Availability of Reports

Except for data determined to be confidential under the Maryland Public Information Act and/or Section 308 of the Clean Water Act, 33 U.S.C. § 1318, all submitted data must be available for public inspection at the offices of the Department and the Regional Administrator of the Environmental Protection Agency.

L. Removed Substances

Wastes such as solids, sludges, or other pollutants removed from or resulting from treatment or control of wastewaters or facility operations, must be disposed of in a manner to prevent any wastes or runoff from wastes from contacting waters of the State.

M. Facility Operation and Maintenance

You must at all times properly operate and maintain all facilities and systems of treatment and control which are installed or used to achieve compliance with the conditions of the permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or a similar system that you have installed only when the operation is necessary to achieve compliance with the conditions of the permit.

N. Toxic Pollutants

You must comply with effluent standards or prohibitions for toxic pollutants established under the Federal Clean Water Act, or under Section 9-314 and Sections 9-322 to 9-328 of the Environment Article, Annotated Code of Maryland. You must be in compliance within the time provided in the regulations that establish these standards or prohibitions, even if this permit has not yet been modified to incorporate the requirement.

O. Oil and Hazardous Substances Prohibited

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve you from any responsibility, liability, or penalties to which the permittee may be subject under Section 311 of the Clean Water Act (33. U.S.C. § 1321), or under the Annotated Code of Maryland.

Permittees may be subject to additional requirements and regulations dictated by the Department's Oil Control Program and Emergency Planning and Community Right-to-Know Act (EPCRA) (40 CFR 116). Any requirements listed in this permit which control grease, oil or fuel are to address potential pollutants not governed directly by Oil Pollution Prevention (40 CFR 112), as the handling and storage of fuel and other petroleum products has a potential to cause negative impacts to waters of the state.

P. Water Construction and Obstruction

This permit does not authorize you to construct or place physical structures, facilities, or debris or undertake related activities in any waters of the State. Operations within the floodplain may require additional permit coverage and may justify flood insurance in those flood prone areas, especially due to climate change effects on increased frequency of flooding.

Q. Permit Modification

The Department may revoke this permit or modify this permit to include different limitations and requirements, in accordance with the procedures contained in COMAR 26.08.04.10 and 40 C.F.R. §§ 122.62, 122.63, 122.64 and 124.5.

This permit must be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standard or limitation issued or approved under Sections 301, 304, and 307 of the Clean Water Act [33 USCS §§ 1311, 1314, 1317] if the effluent standard or limitation issued or approved:

1. contains different conditions or is otherwise more stringent than any effluent limitation in this permit; or

2. controls any pollutant not limited in this permit. This permit, as modified or reissued under this section, must also contain any other requirements of the Act then applicable.

R. Total Maximum Daily Load (TMDL)

The permit may be reopened in accordance with Maryland's Administrative Procedures Act to incorporate future Total Maximum Daily Load requirements.

S. Severability

The provisions of this permit are severable. If any provisions of this permit must be held invalid for any reason, the remaining provisions must remain in full force and effect. If the application of any provision of this permit to any circumstances is held invalid, its application to other circumstances must not be affected.

PART VII. AUTHORITY TO ISSUE GENERAL NPDES PERMITS

On September 5,1974, the Administrator of the EPA approved the proposal submitted by the State of Maryland for the operation of a permit program for discharges into navigable waters

under Section 402 of the Federal Clean Water Act, 33 U.S.C. Section 1342.

On September 30, 1990, the Administrator of the EPA approved the proposal submitted by the State of Maryland for the operation of a general permit program.

Under the approvals described above, the general discharge permit is both a State of Maryland general discharge permit and a NPDES general permit.

D. Lee Currey, Director
Water and Science Administration